

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		<b>CONFIDENTIAL</b>	
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone			
2. Name of Operator SHENANDOAH ENERGY INC.		Contact: JENNY MOORE E-Mail: jmoore@shenandoahenergy.com	
3a. Address 11002 E 17500 S VERNAL, UT 84078		3b. Phone No. (include area code) Ph: 435.781.4352	
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SWNE 2060FNL 2005FEL At proposed prod. zone		4447325 N 624464 E	
14. Distance in miles and direction from nearest town or post office* 12 +/- MILES FROM REDWASH, UTAH		12. County or Parish UINTAH	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 2005' +/-		13. State UT	
16. No. of Acres in Lease 40.00		17. Spacing Unit dedicated to this well 2320.00	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 2000' +/-		19. Proposed Depth 8750 MD 8750 TVD	
20. BLM/BIA Bond No. on file U-0969		21. Elevations (Show whether DF, KB, RT, GL, etc.) 4965 KB	
22. Approximate date work will start		23. Estimated duration 10 DAYS	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) JENNY MOORE	Date 10/30/2001
Title PREPARER		
Approved by (Signature)	Name (Printed/Typed) BRADLEY G. HILL	Date 11-06-01
Title	Office RECLAMATION SPECIALIST III	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #8272 verified by the BLM Well Information System  
For SHENANDOAH ENERGY INC., sent to the Vernal

NOV 01 2001

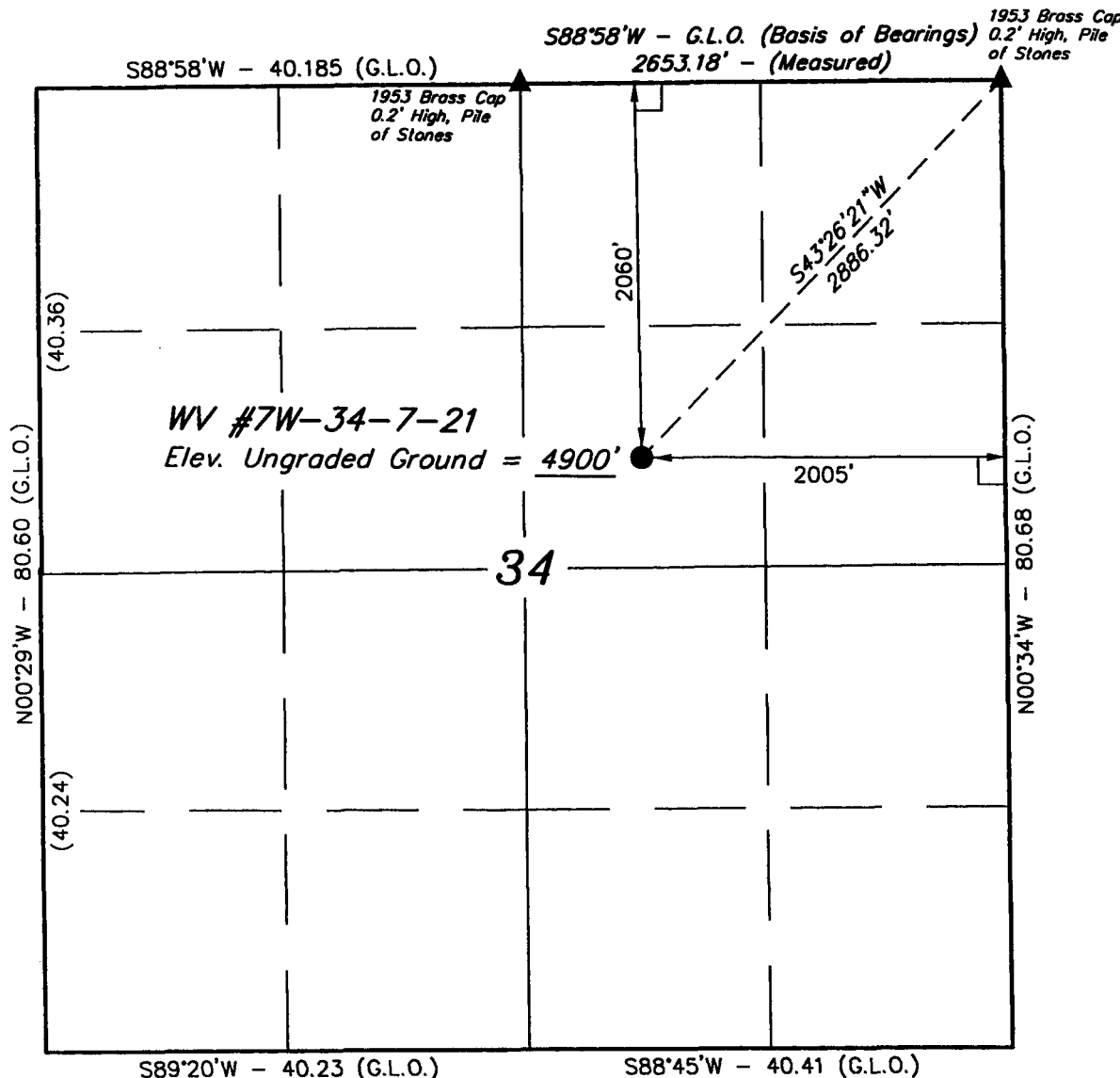
DIVISION OF  
OIL, GAS AND MINING

\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\*

T7S, R21E, S.L.B.&M.

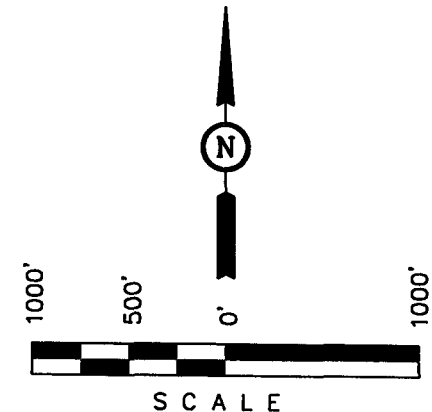
SHENANDOAH ENERGY, INC.

Well location, WV #7W-34-7-21, located as shown in the SW 1/4 NE 1/4 of Section 34, T7S, R21E, S.L.B.&M. Uintah County, Utah.



### BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT THE SOUTHEAST CORNER OF SECTION 27, T7S, R21E, S.L.B.&M. TAKEN FROM THE BRENNAN BASIN QUADRANGLE, UTAH, UINTAH COUNTY 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5069 FEET.



### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert McKay*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 461319  
STATE OF UTAH

### LEGEND:

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

LATITUDE = 40°10'08"

LONGITUDE = 109°32'19"

**UINTAH ENGINEERING & LAND SURVEYING**  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 10-1-01	DATE DRAWN: 10-8-01
PARTY D.K. R.W. D.COX	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE SHENANDOAH ENERGY, INC.	

**Additional Operator Remarks:**

Shenandoah Energy Inc. proposes to drill a well to 8750' to test the Wasatch. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

Please see Shenandoah Energy Inc. Standard Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 and 24 East.

See Onshore Order No. 1 attached

Please be advised that Shenandoah Energy Inc. agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond coverage for this well is provided by Bond No. U-0969. The principal is Shenandoah Energy Inc. via surety as consent as provided for the 43 CFR 3104.2.

# SHENANDOAH ENERGY, INC.

WV #7W-34-7-21

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 34, T7S, R21E, S.L.B.&M.

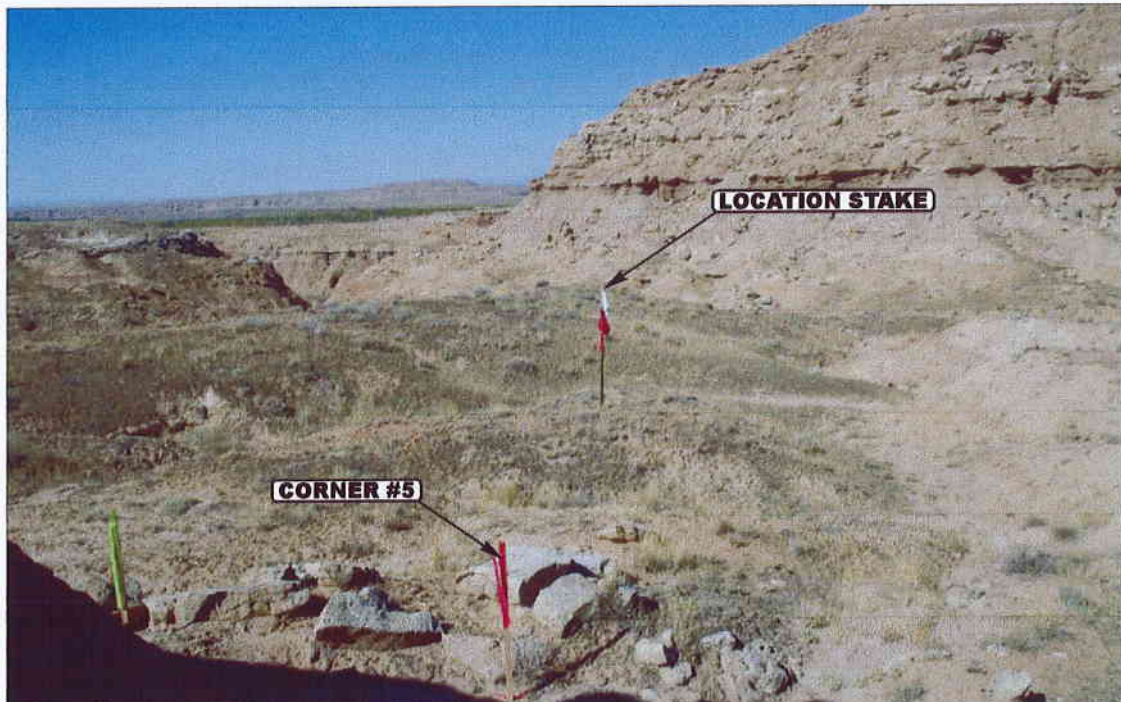


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHWESTERLY



- Since 1964 -

**UELS** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

10  
MONTH

9  
DAY

01  
YEAR

PHOTO

TAKEN BY: D.K.

DRAWN BY: K.G.

REVISED: 00-00-00

SHENANDOAH ENERGY INC.  
WELL # 7W-34-7-21

ONSHORE OIL & GAS ORDER NO. 1  
Approval of Operations on Onshore  
Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. Formation Tops

The estimated tops of important geologic markers are as follows:

<b>Formation</b>	<b>Depth</b>	<b>Prod. Phase Anticipated</b>
Uinta	Surface	
Green River	3230	
Mahogany Ledge	4155	
Mesa	6740	
TD (Wasatch)	8750	GAS

2. Anticipated Depths of Oil, Gas, Water and Other Mineral Bearing Zones

The estimated depths at which the top and bottom of the anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:

<b>Substance</b>	<b>Formation</b>	<b>Depth</b>
Oil/Gas	Wasatch	8750

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If no flows are detected, samples will be submitted to the BLM along with any water analyses conducted.

3. Anticipated Bottom Hole Pressures

Maximum anticipated bottom hole pressure equals approximately 3500.0 psi.

SHENANDOAH ENERGY INC.  
WONSITS VALLEY 7W-34-7-21  
2060' FNL, 2005' FEL  
SWNE, SECTION 34, T7S, R21E  
UINTAH COUNTY, UTAH  
LEASE # UTU-16551

ONSHORE ORDER NO. 1

**MULTI – POINT SURFACE USE & OPERATIONS PLAN**

An onsite inspection was conducted for the WV 7W-34-7-21 on October 18, 2001 at approximately 10:30PM. Weather conditions were sunny and clear with a temperature of 70 degrees at the time of the onsite. In attendance at the inspection were the following individuals:

Byron Tolman	Bureau of Land Management
Dixie Sadler	Bureau of Land Management
Raleen Searle	Shenandoah Energy Inc.

**1. Existing Roads:**

The proposed well site is approximately 12 miles southeast of Red Wash, Utah.

Refer to Topo Maps A and B for location of access roads within a 2 – mile radius.

Improvements will be made as needed on existing roads.

**2. Planned Access Roads:**

Please see Shenandoah Energy Inc. Standard Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

Refer to Topo Map B for the location of the proposed access road.

Place culverts as needed and low water crossings where applicable. Contractors will refer to the attached Survey and Design when building an access road.

**3. Location of Existing Wells Within a 1 – Mile Radius:**

Please refer to Topo Map C.

**4. Location of Existing & Proposed Facilities:**

Please see Shenandoah Energy Inc. Standard Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

Refer to Topo Map D for the location of the proposed pipeline.

**5. Location and Type of Water Supply:**

Please see Shenandoah Energy Inc. Standard Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

**6. Source of Construction Materials:**

Please see Shenandoah Energy Inc. Standard Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

7. **Methods of Handling Waste Materials:**

Please see Shenandoah Energy Inc. Standard Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

8. **Ancillary Facilities:**

Please see Shenandoah Energy Inc. Standard Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

A felt liner will be installed followed by a plastic liner.

10. **Plans for Reclamation of the Surface:**

Please see Shenandoah energy Inc. Standard Operating Practices for Wasatch Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Township 07 and 08 South, Ranges 21 to 24 East.

Seed mix #1 on Bench Road

Seed mix Location/ under Bench  
Shadescale - 3 pounds  
Gardner Saltbush - 3 pounds  
Indian Rice Grass - 3 pounds  
Giatta Grass - 3 pounds

11. **Surface Ownership:**

The well pad and access road are located on lands owned by:

Bureau of Land Management  
170 South 500 East  
Vernal, Utah 84078  
(435) 781-4400

12. **Other Information**

A Class III archaeological survey was conducted by Montgomery Archaeology Consultants. A copy of this report was submitted directly to the appropriate agencies by Montgomery Archaeology Consultants. Cultural resource clearance was recommended for this location.

A rights-of-way will be required for the pipeline that travels off lease in Section 34. The part of the pipeline that goes off lease is +/- 1,100' in length 20' in width, 3" steel zaplocked on location then drug into place.

Lessee's or Operator's Representative:



John Busch  
Red Wash Operations Rep.  
Shenandoah Energy Inc.  
11002 East 17500 South  
Vernal, Utah 84078  
(435) 781-4341

Certification:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil & Gas Orders, the approved plan of operations, and any applicable Notice to Lessees.

Shenandoah Energy Inc. will be fully responsible for the actions of their subcontractors.

A complete copy of the approved Application for Permit to Drill will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Shenandoah Energy Inc. its' contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

John Busch John Busch  
John Busch  
Red Wash Operations Representative

30-Oct-01  
Date

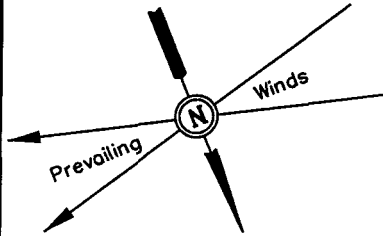


# SHENANDOAH ENERGY, INC.

## LOCATION LAYOUT FOR

WV #7W-34-7-21  
SECTION 34, T7S, R21E, S.L.B.&M.  
2060' FNL 2005' FEL

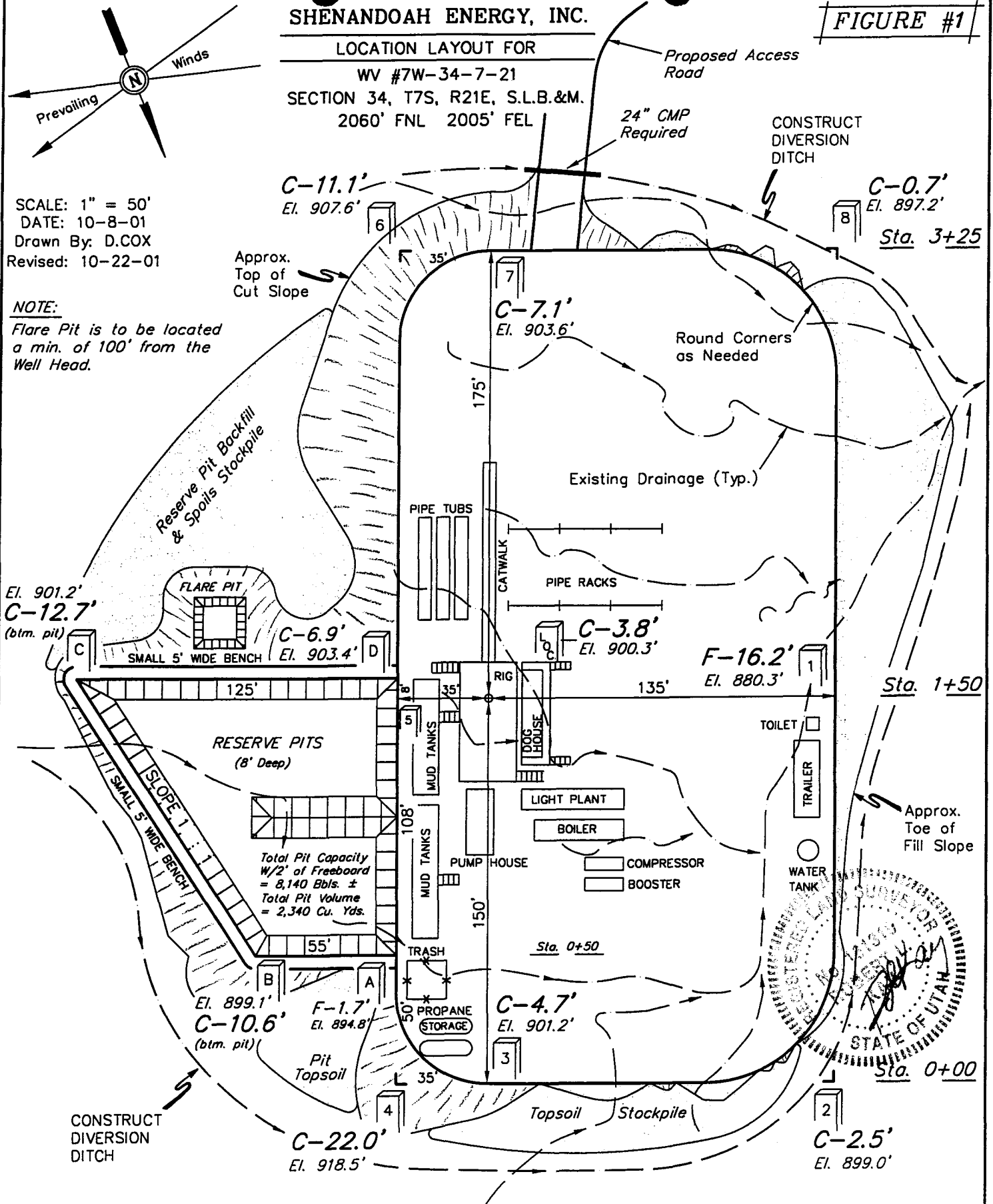
FIGURE #1



SCALE: 1" = 50'  
DATE: 10-8-01  
Drawn By: D.COX  
Revised: 10-22-01

### NOTE:

Flare Pit is to be located  
a min. of 100' from the  
Well Head.



### NOTES:

Elev. Ungraded Ground At Loc. Stake = 4900.3'  
FINISHED GRADE ELEV. AT LOC. STAKE = 4896.5'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

# SHENANDOAH ENERGY, INC.

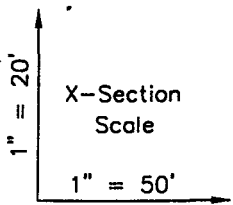
## TYPICAL CROSS SECTIONS FOR

WV #7W-34-7-21

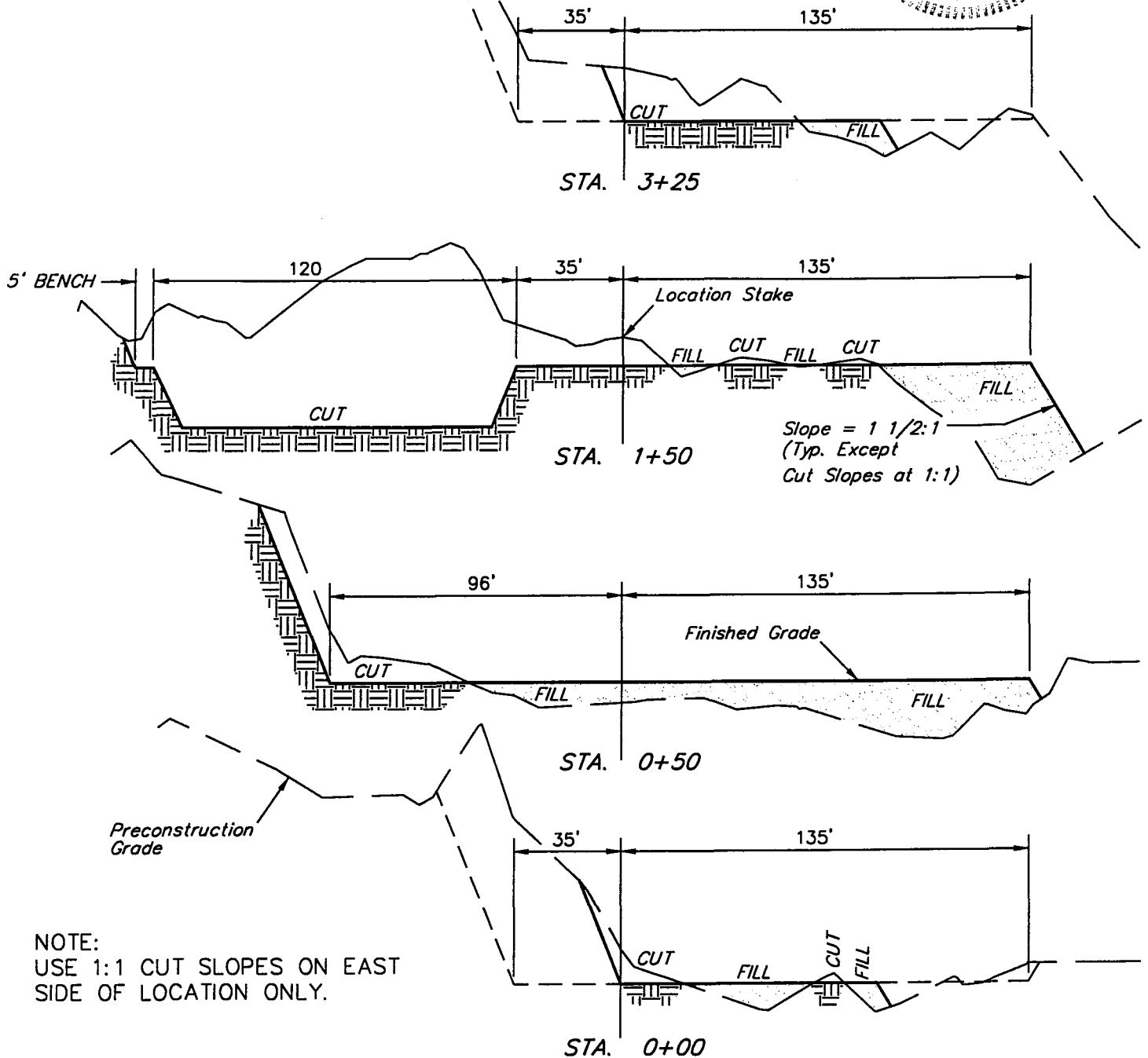
SECTION 34, T7S, R21E, S.L.B.&M.

2060' FNL 2005' FEL

FIGURE #2



DATE: 10-8-01  
Drawn By: D.COX

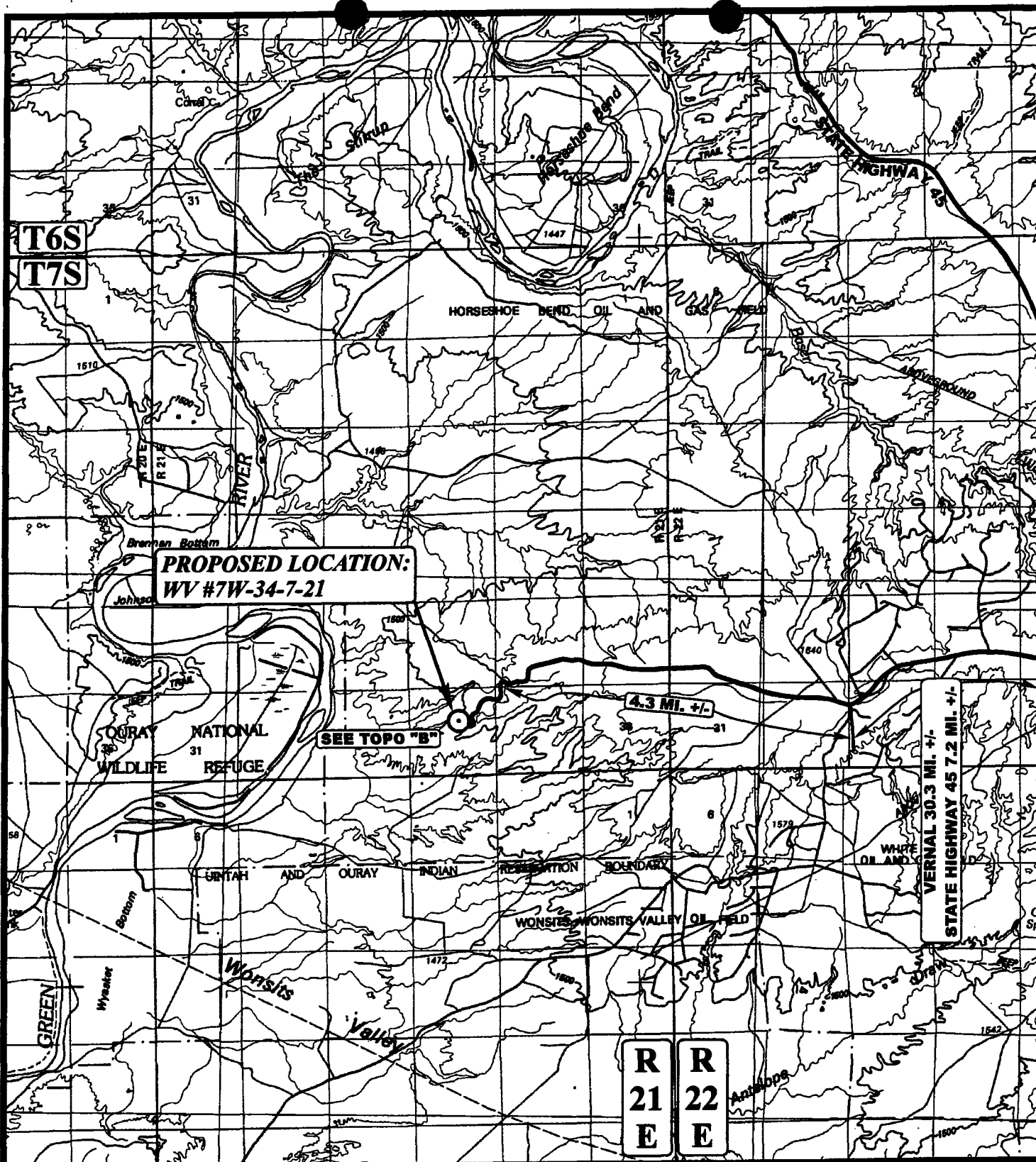


### APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,260 Cu. Yds.
Remaining Location	= 11,200 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 12,460 CU.YDS.</b>
<b>FILL</b>	<b>= 9,530 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	= 2,430 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,430 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017



# LEGEND:

⊙ PROPOSED LOCATION



**SHENANDOAH ENERGY, INC.**

**WV #7W-34-7-21**

**SECTION 34, T7S, R21E, S.L.B.&M.**

**2060' FNL 2005' FEL**



**Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

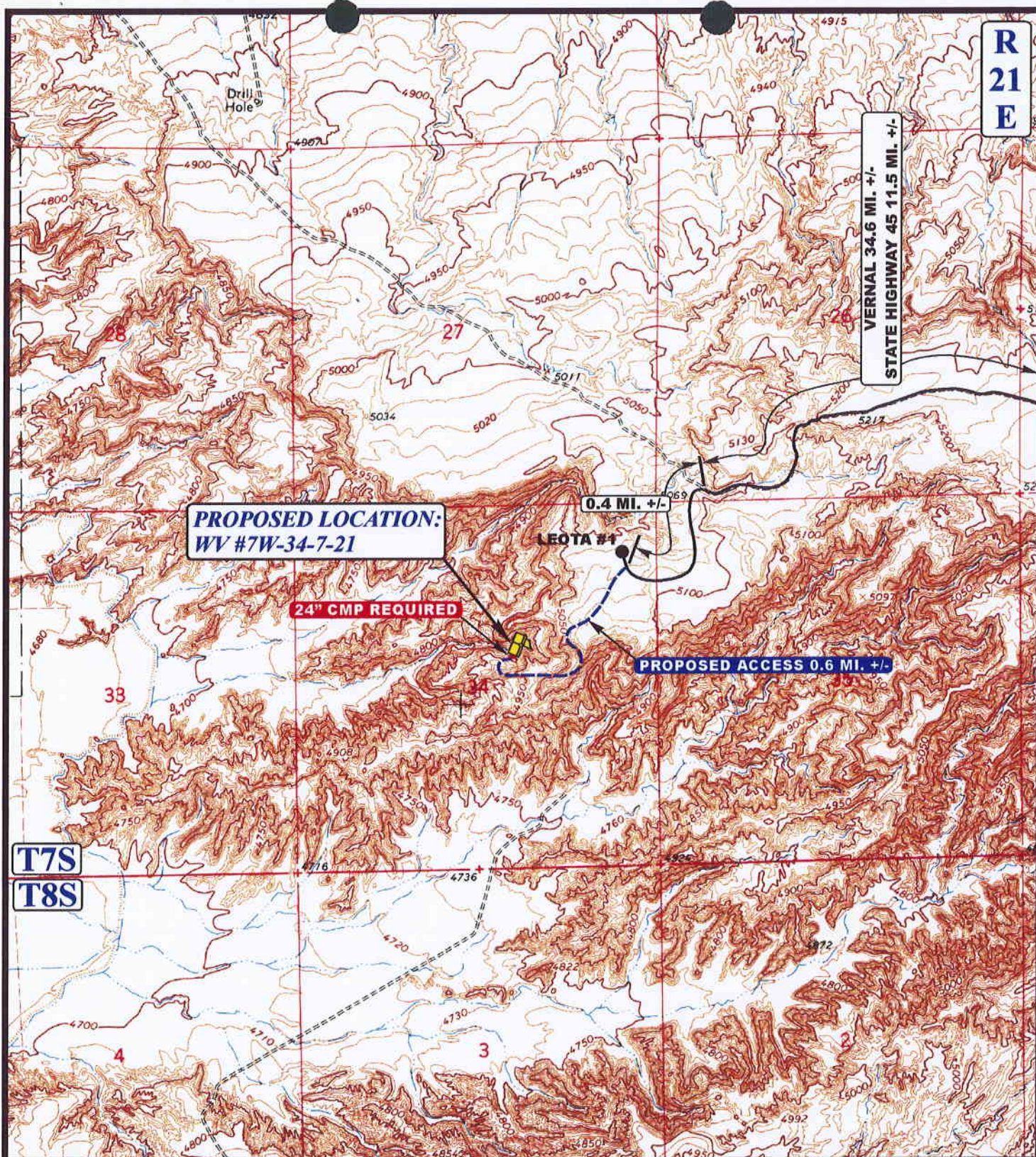
**TOPOGRAPHIC  
MAP**

**10 9 01**  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: K.G. REVISED: 00-00-00

**A**  
TOPO





# **LEGEND:**

----- PROPOSED ACCESS ROAD  
 ----- EXISTING ROAD



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



## **SHENANDOAH ENERGY, INC.**

**WV #7W-34-7-21**  
**SECTION 34, T7S, R21E, S.L.B.&M.**  
**2060' FNL 2005' FEL**

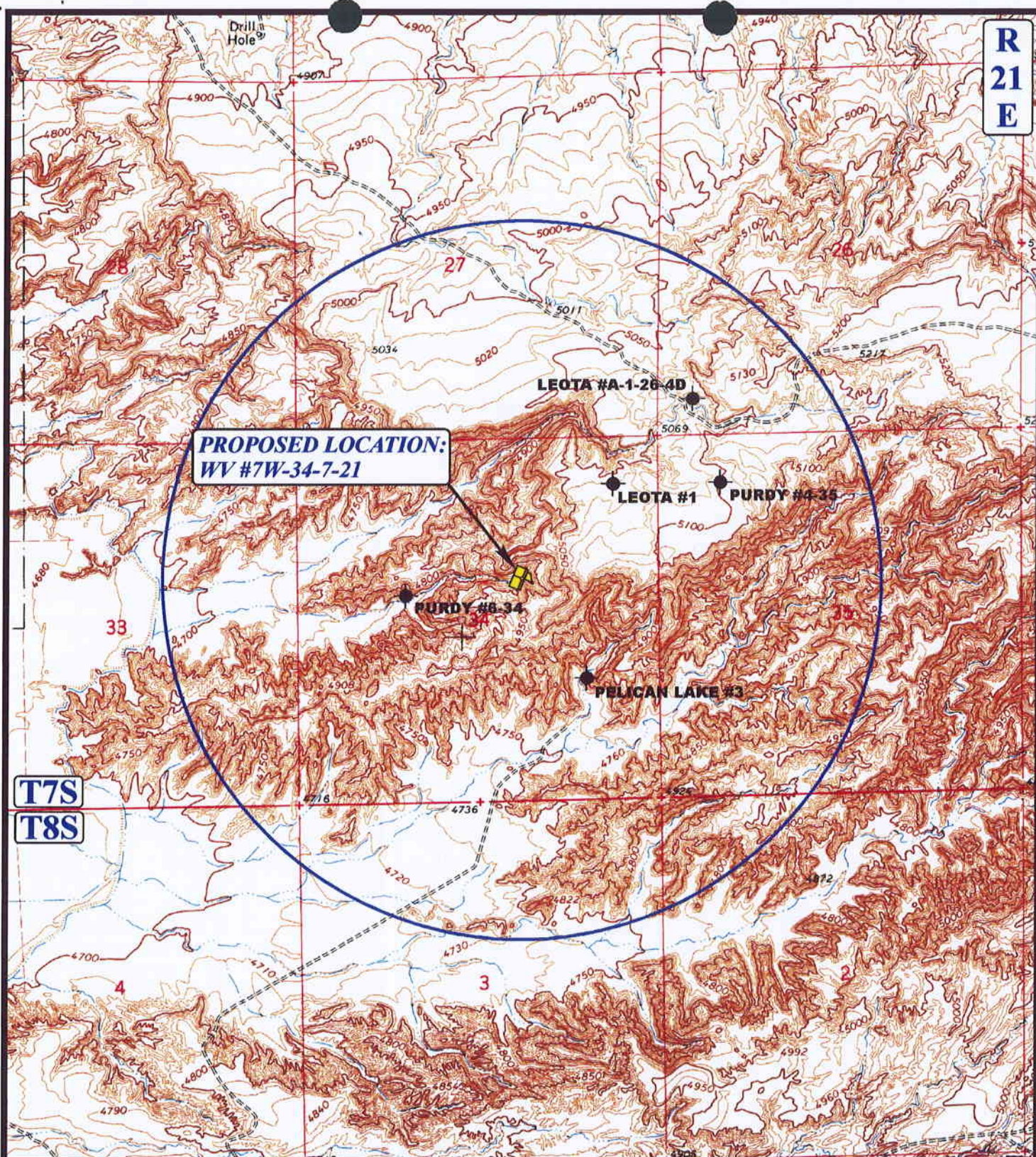
**TOPOGRAPHIC**  
**MAP**

**10 9 01**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: K.G. REVISED: 10-22-01

**B**  
 TOPO





# **LEGEND:**

- |                   |                         |
|-------------------|-------------------------|
| ⊗ DISPOSAL WELLS  | ⊗ WATER WELLS           |
| ● PRODUCING WELLS | ● ABANDONED WELLS       |
| ● SHUT IN WELLS   | ● TEMPORARILY ABANDONED |



**SHENANDOAH ENERGY, INC.**

**WV #7W-34-7-21**  
**SECTION 34, T7S, R21E, S.L.B.&M.**  
**2060' FNL 2005' FEL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

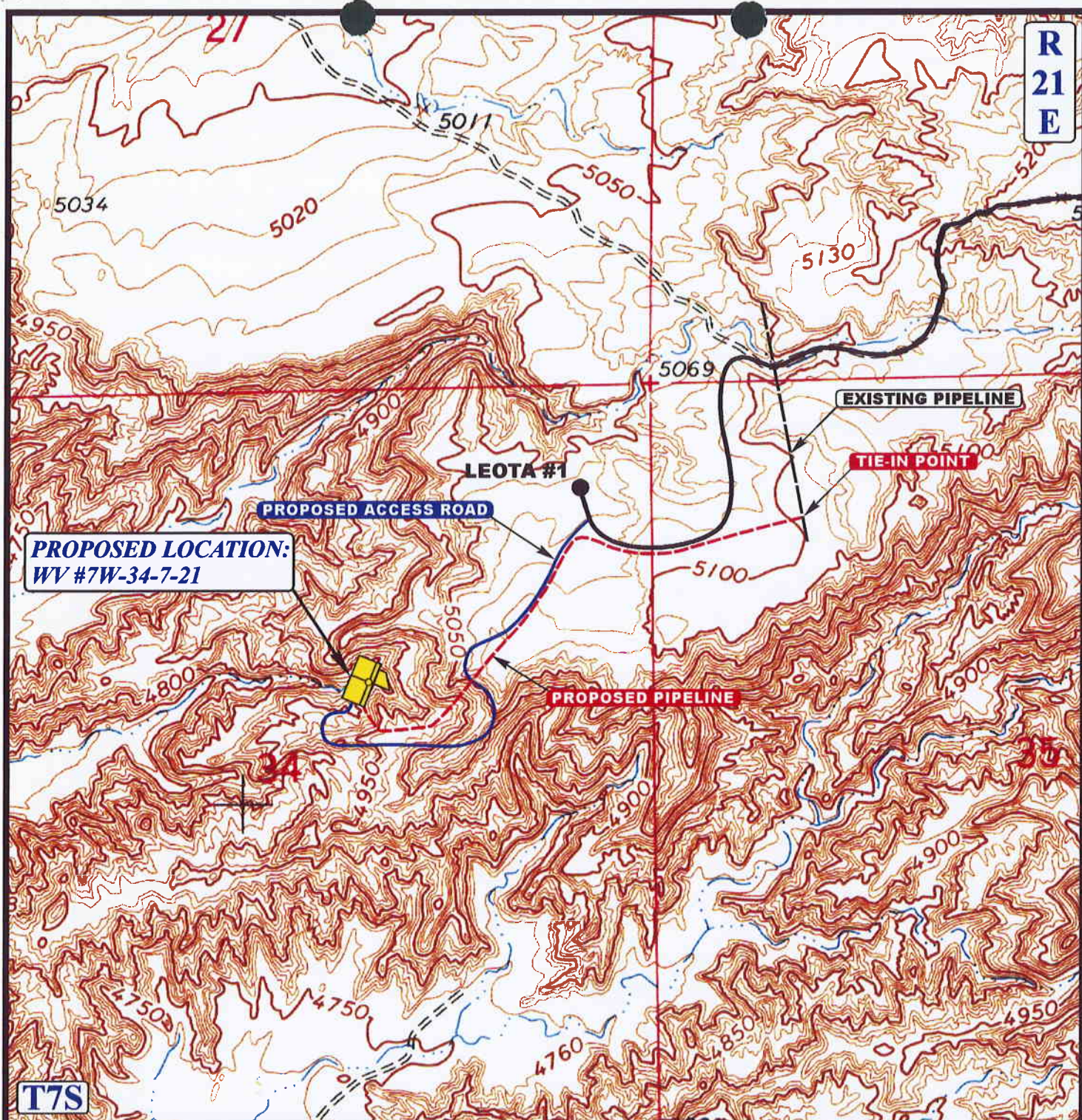
**TOPOGRAPHIC**  
**MAP**

**10 9 01**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: K.G. REVISED: 00-00-00







**APPROXIMATE TOTAL PIPELINE DISTANCE IN SECTION 35 = 1100' +/-**

**APPROXIMATE TOTAL PIPELINE DISTANCE IN SECTION 34 = 2800' +/-**

**LEGEND:**

- EXISTING PIPELINE
- - - - PROPOSED PIPELINE
- PROPOSED ACCESS

**SHENANDOAH ENERGY, INC.**

**WV #7W-34-7-21**

**SECTION 34, T7S, R21E, S.L.B.&M.**

**2060' FNL 2005' FEL**



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**10 9 01**  
MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: K.G. REVISED: 10-22-01

**D  
TOPO**



**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/01/2001

API NO. ASSIGNED: 43-047-34380

WELL NAME: WV 7W-34-7-21

OPERATOR: SHENANDOAH ENERGY INC ( N4235 )

CONTACT: JOHN BUSCH

PHONE NUMBER: 435-781-4352

**PROPOSED LOCATION:**

SWNE 34 070S 210E

SURFACE: 2060 FNL 2005 FEL

BOTTOM: 2060 FNL 2005 FEL

UINTAH

UNDESIGNATED ( 2 )

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-16551

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: WSTC

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

**RECEIVED AND/OR REVIEWED:**

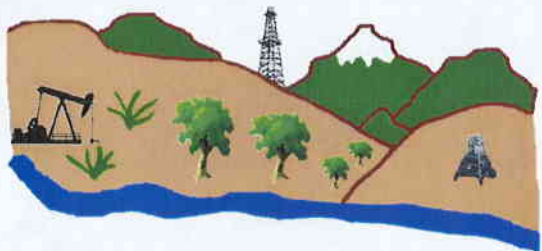
☒ Plat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. U-0969 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 43-8496 )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)

**LOCATION AND SITING:**

☐ R649-2-3. Unit  
☒ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
☐ R649-3-3. Exception  
☐ Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_  
☐ R649-3-11. Directional Drill

COMMENTS: WV SoP, separate file.

STIPULATIONS: 1- Fed. Approval  
2- Spacing Stip.



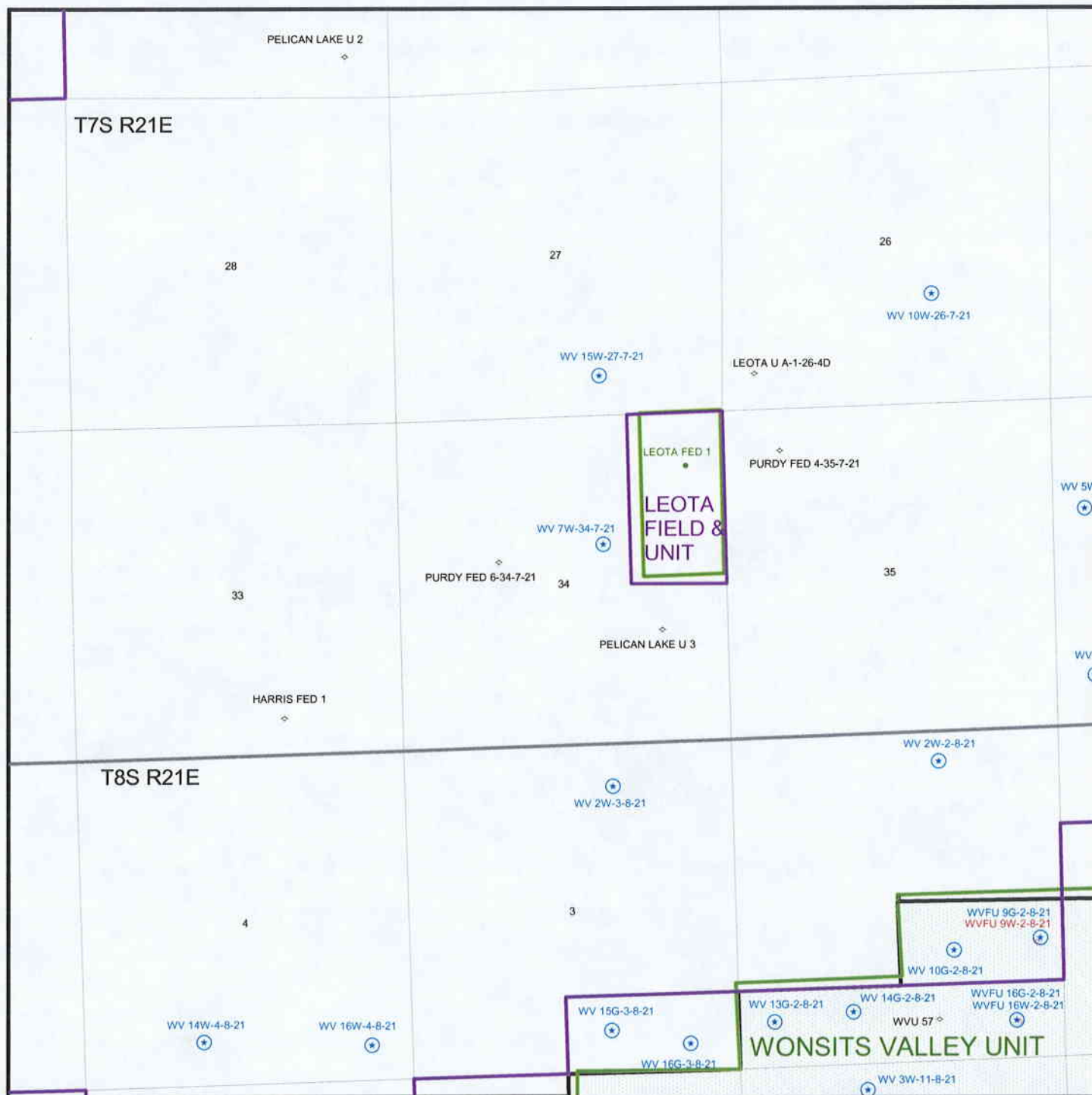
Utah Oil Gas and Mining

OPERATOR: SHENANDOAH ENERGY (N4235)

SEC. 34, T7S, R21E

FIELD: UNDESIGNATED (002)

COUNTY: UINTAH SPACING: R649-3-2/GEN ST







# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

Michael O. Leavitt  
Governor

Lowell P. Braxton  
Division Director

November 6, 2001

Shenandoah Energy Inc.  
11002 East 17500 South  
Vernal, UT 84078

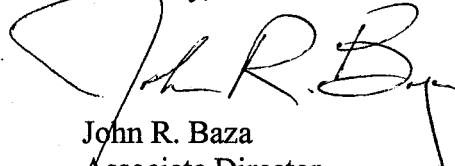
Re: Wonsits Valley 7W-34-7-21 Well, 2060' FNL, 2005' FEL, SW NE, Sec. 34, T. 7 South,  
R. 21 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-34380.

Sincerely,



John R. Baza  
Associate Director

dm

Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office

Operator: Shenandoah Energy Inc.  
Well Name & Number Wonsits Valley 7W-34-7-21  
API Number: 43-047-34380  
Lease: UTU 16551

Location: SW NE                      Sec. 34                      T. 7 South                      R. 21 East

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		<b>CONFIDENTIAL</b>	5. Lease Serial No. UTU-16551
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone			6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator SHENANDOAH ENERGY INC.		Contact: JENNY MOORE E-Mail: jmoore@shenandoahenergy.com	7. If Unit or CA Agreement, Name and No. N/A
3a. Address 11002 E 17500 S VERNAL, UT 84078	3b. Phone No. (include area code) Ph: 435.781.4352		8. Lease Name and Well No. WONSITS VALLEY 7W-34-7-21
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWNE 2060FNL 2005FEL At proposed prod. zone			9. API Well No.
14. Distance in miles and direction from nearest town or post office* 12 +/- MILES FROM REDWASH, UTAH			10. Field and Pool, or Exploratory UNDESIGNATED FIELD
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 2005' +/-			11. Sec., T., R., M., or Blk. and Survey or Area Sec 34 T7S R21E Mer SLB
16. No. of Acres in Lease 40.00			12. County or Parish UINTAH
17. Spacing Unit dedicated to this well 2320.00			13. State UT
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 2000' +/-			20. BLM/BIA Bond No. on file U-0969
19. Proposed Depth 8750 MD 8750 TVD			23. Estimated duration 10 DAYS
21. Elevations (Show whether DF, KB, RT, GL, etc.) 4965 KB			22. Approximate date work will start

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) JENNY MOORE	Date 10/30/2001
--	-------------------------------------	--------------------

Title  
PREPARER

Approved by (Signature) <i>Edwin I. Forsman</i>	Name (Printed/Typed) EDWIN I. FORSMAN	Date 3/27/02
Title Assistant Field Manager Acting Mineral Resources	Office NOTICE OF APPROVAL	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

**CONDITIONS OF APPROVAL ATTACHED**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #8272 verified by the BLM Well Information System  
For SHENANDOAH ENERGY INC., sent to the Vernal  
Committed to AFMSS for processing by LESLIE WALKER on 11/06/2001 ()

DIVISION OF  
OIL, GAS AND MINING

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CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Shenandoah Energy, Inc.  
Well Name & Number: WV #7W-34-7-21  
API Number: 43-047-34380  
Lease Number: U - 16551  
Location: SWNE Sec. 34 T. 07S R. 21E  
Agreement: N/A

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

### **CONDITIONS OF APPROVAL FOR NOTICE TO DRILL**

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

### **DRILLING PROGRAM**

#### **Casing Program and Auxiliary Equipment**

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above top of the Green River Formation, identified at  $\pm 3,220$  ft.

### **CONDITIONS OF APPROVAL FOR THE SURFACE USE PROGRAM**

Due to paleontological concerns, the construction of the access road and well location shall be monitored by a certified paleontologist.

The construction of the access road shall be completed in accordance with the official survey and design completed by Uintah Engineering and Land Survey.

OPERATOR: **Shenandoah Energy, Inc.**  
ADDRESS: **11002 East 17500 South**  
**Vernal, Utah 84078-8526**

OPERATOR ACCT. No. N-4235

**(435)781-4300**

Action Code	Current Entity No.	New Entity No.	API Number	Well Name	QQ	SC	TP	RG	County	Spud Date	Effective Date
A	99999	13458	43-047-34380	WV 7W 34 7 21	SW NE	34	7S	21E	Uintah	4/04/02	4-18-02

WELL 1 COMMENTS:

New well to be drilled in Wonsits Valley. Not in the Wasatch participating area.

WELL 2 COMMENTS:

WELL 3 COMMENTS:

WELL 4 COMMENTS:

WELL 5 COMMENTS:

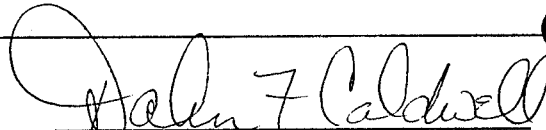
ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected

(3/89)

**CONFIDENTIAL**

  
Signature

Administrative Assistant 4/15/02  
Title Date

Phone No. (435) 781-4342

CONFIDENTIAL

Shenandoah Energy Inc.  
Wonsits Valley Federal SU PURDY 7W-34-7-21  
Routine Core Analysis Test Results

Project No: 500421

May 6, 2002

*TOPS R21E SEC-34*  
*43-047-34380*



**TerraTek**

University Research Park  
400 Wakara Way  
Salt Lake City, Utah 84108

Sample Number	Sample Depth (ft)	Sample Length (in)	Sample Diameter (in)	Ambient Porosity (%)	Grain Density (g/cc)	Gas Permeability (md)	Saturation		Lithology
							Water (%)	Oil (%)	
1	8206.00	1.522	0.917	4.09	2.718	0.039	57.30	0.00	ss, ltgy, vf-fgr, sil+calc+cly
2	8163.00	0.948	0.920	7.28	2.708	0.161	75.61	0.00	ss, ltgy, fgr, cly+sil+mnr calc
3	8158.00	0.978	0.920	13.23	2.688	0.264	64.53	0.00	ss, ltgy, fgr, cly+sil+mnr calc, mud rip-ups
4	8152.00	1.304	0.918	12.05	2.708	0.176	64.33	0.00	ss, ltgy, fgr, cly+sil
5	8147.00	1.119	0.918	14.53	2.686	0.396	64.97	0.00	ss, ltgy, fgr, cly+sil+mnr calc
6	8141.00	1.006	0.920	12.07	2.685	9473	72.72	0.00	ss, ltgy, fgr, cly+sil+calc, frac
7	8133.00	1.449	0.919	10.92	2.686	0.159	57.00	0.00	ss, ltgy, fgr, cly+sil+calc
8	8129.00	1.191	0.918	10.56	2.687	0.159	59.11	0.00	ss, ltgy, fgr, cly+sil+mnr calc
9	8101.00	1.362	0.921	6.27	2.694	0.123	66.32	0.00	ss, ltgy, fgr, cly+sil+calc
10	8097.00	1.363	0.925	9.94	2.669	0.139	66.64	0.00	ss, ltgy, fgr, cly+sil+mnr calc
11	8092.00	1.096	0.920	9.34	2.676	0.106	65.70	0.00	ss, ltgy, fgr, cly+sil+calc
12	7719.00	1.391	0.920	9.52	2.670	0.089	72.03	0.00	ss, vltgy, vfgr, sil+calc
13	nsa								
14	7555.00	1.254	0.919	10.06	2.668	0.136	74.85	0.00	ss, ltbr-gy, fgr, sil+calc
15	7525.00	1.376	0.918	5.72	2.736	1.73	76.20	0.00	ss, gy-red, fgr, sil+mnr calc+cly, hem, mot
16	7401.00	1.201	0.914	7.66	2.657	0.532	84.70	0.00	ss, pk-gy, fgr, sil+mnr calc, hem
17	7396.00	1.348	0.915	12.14	2.713	0.559	78.11	0.00	ss, pk-gy, vfgr, sil+mnr calc, hem
18	6906.00	0.659	0.917	10.86	2.672	4.15	27.48	38.15	ss, vltgy/pk, f-mgr, sil+calc, ofs, pofs
19	6900.00	1.370	0.917	9.68	2.672	1.25	38.96	27.00	ss, vltgy/pk, vf-fgr, sil+calc, mot
20	6893.00	1.318	0.916	14.88	2.747	0.394	74.33	0.00	ss, pk-gy, vfgr, sil+dol

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**TerraTek**

University Research Park  
400 Wakara Way - Salt Lake City, Utah 84108  
Telephone (801) 584-2400  
Fax (801) 584-2432

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DIVISION OF  
OIL, GAS AND MINING

08/13/2002

CONFIDENTIAL

**Shenandoah Energy Inc.**  
**Wonsits Valley Federal SU PURDY 7W-34-7-21**  
**Routine Core Analysis Test Results**

Project No: 500421

May 6, 2002



**TerraTek**  
 University Research Park  
 400 Wakara Way  
 Salt Lake City, Utah 84108

Sample Number	Sample Depth (ft)	Sample Length (in)	Sample Diameter (in)	Ambient Porosity (%)	Grain Density (g/cc)	Gas Permeability (md)	Saturation		Lithology
							Water (%)	Oil (%)	
21	6828.00	1.313	0.916	9.10	2.668	1.16	19.64	27.07	ss, vltgy/pk, vf-fgr, sil+mnr calc, mot
22	6824.00	1.168	0.917	10.65	2.665	21.9	56.61	24.77	ss, vltgy/pk, vf-fgr, sil+mnr calc+cly
23	6818.00	0.727	0.916	11.26	2.668	5.163	51.79	34.53	ss, vltgy/pk, fgr, sil+mnr calc+cly
24	6813.00	N/A	N/A	12.63	2.664	N/A	48.76	26.73	ss, lt tan/gy, fgr, sil+mnr calc+cly, of
25	6660.00	0.694	0.913	8.76	2.722	0.191	71.01	0.00	ss, vltgy, vfgr, sil+calc, lam
26	6254.00	0.754	0.912	8.27	2.669	0.764	30.68	34.29	ss, vltgy, vfgr, sil+calc+mnr cly
27	6247.00	0.549	0.916	7.10	2.713	0.103	65.70	0.00	ss, vltgy, vfgr, sil+mnr calc
28	6242.00	1.128	0.919	4.76	2.694	0.231	69.99	29.64	ss, lt-mgy, vf-mgr, sil+calc, mot
29	6202.00	1.109	0.918	3.14	2.631	0.058	67.11	29.37	ms, brn/blk, cly+slt, calc, lam
30	6198.00	0.896	0.903	2.36	2.644	0.030	63.10	30.22	ms, brn/blk, cly+slt, calc, lam
31	6192.00	0.789	0.909	10.02	2.703	0.396	29.86	42.29	ls, lt tan/pk+blk, micxl, intxl+intprt, ool, fos, bit
32	5939.00	1.235	0.920	6.61	2.677	0.101	17.09	43.16	ss, vltgy, vfgr, calc
33	5936.00	1.127	0.920	12.85	2.829	0.080	19.23	30.99	ls, lt tan/pk+blk, mic-fxl, intxl+intprt, ool, fos
34	5934.00	N/A	N/A	11.98	2.762	N/A	24.12	36.20	ls, lt tan/pk+blk, mic-fxl, intxl+intprt, ool, fos, of
35	5850.00	1.231	0.916	4.24	2.707	0.142	53.88	18.80	ss, mgy, vf-fgr, vcalc, xbdd, pof, shy lam
36	5830.00	1.459	0.917	4.65	2.698	0.038	27.38	36.56	sltst, lt-mgy, slt, vcalc, lam
37	5758.00	0.528	0.920	10.59	2.711	0.140	25.87	33.69	ss, ltgy, vf-fgr, calc, wvy bdd/lam, of w/calc
38	5206.00	N/A	N/A	10.92	2.696	N/A	30.98	35.72	ss, lt-mgy, vfgr, calc+sil, wvy bdd, mica
39	5204.00	1.000	0.918	3.50	2.717	0.193	65.67	0.00	ss/sltst, ltgy/tan, slt-vfgr, calc+sil, lam
40	4870.00	0.792	0.916	8.78	2.709	0.124	40.47	31.42	ss, ltgy/tan, slt-vfgr, calc+sil, lam

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AUG 13 2002

**TerraTek**  
 University Research Park  
 400 Wakara Way - Salt Lake City, Utah 84108  
 Telephone (801) 584-2400  
 Fax (801) 584-2432

**DIVISION OF**  
**OIL, GAS AND MINING** 08/13/2002



Shenandoah Energy Inc.  
Wonsits Valley Federal SU PURDY 7W-34-7-21  
Routine Core Analysis Test Results

Project No: 500421

May 6, 2002



**TerraTek**

University Research Park  
400 Wakara Way  
Salt Lake City, Utah 84108

CONFIDENTIAL

Sample Number	Sample Depth (ft)	Sample Length (in)	Sample Diameter (in)	Ambient Porosity (%)	Grain Density (g/cc)	Gas Permeability (md)	Saturation		Lithology
							Water (%)	Oil (%)	
41	4862.00	N/A	N/A	7.71	2.686	N/A	22.43	47.76	ss, ltgy/tan, vfgr, calc+sil, lam

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AUG 13 2002

DIVISION OF  
OIL, GAS AND MINING

**TerraTek**

University Research Park  
400 Wakara Way - Salt Lake City, Utah 84108  
Telephone (801) 584-2400  
Fax (801) 584-2432

08/13/2002

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.  
UTU 16551

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
WV 7W 34 7 219. API Well No.  
43-047-3438010. Field and Pool, or Exploratory  
UNDESIGNATED11. County or Parish, and State  
UINTAH COUNTY, UT**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator  
SHENANDOAH ENERGY INC.Contact: ANN PETRIK  
E-Mail: apetrik@shenandoahenergy.com3a. Address  
11002 EAST 17500 SOUTH  
VERNAL, UT 840783b. Phone No. (include area code)  
Ph: 435.781.4306  
Fx: 435.781.4329

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 34 T7S R21E SWNE 2060FNL 2005FEL

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Production Start-up
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

THIS WELL COMMENCED PRODUCTION ON 6/11/02.

**RECEIVED**  
JUL 19 2002  
DIVISION OF  
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #12433 verified by the BLM Well Information System  
For SHENANDOAH ENERGY INC., sent to the Vernal

Name (Printed/Typed) ANN PETRIK

Title ADMINISTRATIVE CONTACT

Signature

(Electronic Submission)

Date 06/28/2002

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\*****CONFIDENTIAL**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

**CONFIDENTIAL**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU-16551
2. Name of Operator SHENANDOAH ENERGY INC.		6. If Indian, Allottee or Tribe Name N/A
Contact: RALEEN SEARLE E-Mail: rsearle@shenandoahenergy.com		7. If Unit or CA/Agreement, Name and/or No. N/A
3a. Address 11002 EAST 17500 SOUTH VERNAL, UT 84078	3b. Phone No. (include area code) Ph: 435.781.4309 Fx: 435.781.4329	8. Well Name and No. WONSITS VALLEY 7W-34-7-21
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 34 T7S R21E SWNE 2060FNL 2005FEL		9. API Well No. 43-047-34380
		10. Field and Pool, or Exploratory UNESIGNATED FIELD
		11. County or Parish, and State UINTAH COUNTY, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Shenandoah Energy Inc. proposes to change the name of the WV 7W-34-8-21 to Stirrup Unit Purdy 7W-34-8-21.

14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #12823 verified by the BLM Well Information System For SHENANDOAH ENERGY INC., sent to the Vernal</b>	
Name (Printed/Typed) RALEEN SEARLE	Title PREPARER
Signature <i>Raleen Searle</i>	Date 07/16/2002

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Office _____		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any statement or representation to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**RECEIVED**

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**JUL 19 2002**

**DIVISION OF  
OIL, GAS AND MINING**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: November 30, 2000

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
UTU-16551

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other  
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.  
Other \_\_\_\_\_

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.  
UTU16551

2. Name of Operator  
SHENANDOAH ENERGY INC

Contact: J.T. CONLEY  
E-Mail: jconley@shenandoahenergy.com

8. Lease Name and Well No.  
SU PURDY 7W-34-7-21

3. Address 11002 EAST 17500 SOUTH  
VERNAL, UT 84078

3a. Phone No. (include area code)  
Ph: 435.781.4300

9. API Well No.  
43-047-34380

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

At surface SWNE 2060FNL 2005FEL

At top prod interval reported below SWNE 2060FNL 2005FEL

At total depth SWNE 2060FNL 2005FEL

**CONFIDENTIAL**

10. Field and Pool, or Exploratory  
UNDESIGNATED

11. Sec., T., R., M., or Block and Survey  
or Area Sec 34 T7S R21E Mer SLB

12. County or Parish  
JUNTAH

13. State  
UT

14. Date Spudded  
04/04/2002

15. Date T.D. Reached  
04/20/2002

16. Date Completed  
☐ D & A ☒ Ready to Prod.  
06/10/2002

17. Elevations (DF, KB, RT, GL)\*  
4897 GL

18. Total Depth: MD  
TVD 8800

19. Plug Back T.D.: MD  
TVD 8739

20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric & Other Mechanical Loss Run (Submit copy of cash)  
COMP ND ARRAY INDUCTION, SIDEWALL CORING, CBL-VDL  
5-17-02 5-17-02 6-13-02

22. Was well cored? ☐ No ☒ Yes (Submit analysis)  
Was DST run? ☒ No ☐ Yes (Submit analysis)  
Directional Survey? ☒ No ☐ Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.250	9.625 K-55	36.0	0	600		245		0	
7.875	4.500 J-55	11.6	0	8800		1570		1650	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	8102							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	8094	8162	8094 TO 8100			OPEN
B)			8126 TO 8134			OPEN
C)			8152 TO 8162			OPEN
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
8094 TO 8162	SAND FRAC WITH 98,900 LBS IN 62,600 GALS

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
06/11/2002	06/11/2002	24	→	0.0	451.0	12.0			PERIOD
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
48/64	434	582.0	→					PGW	EXPIRED

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						ON 7-10-03
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #13105 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

**RECEIVED**

JUL 29 2002

**DIVISION OF OIL, GAS AND MINING**

**CONFIDENTIAL**

**PERIOD EXPIRED**

**ON 7-10-03**

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)  
SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
WASATCH	8094	8100	CHANNEL SAND	GREEN RIVER	3161
WASATCH	8126	8134	CHANNEL SAND	WASATCH	6761
WASATCH	8152	8162	CHANNEL SAND		
<b>CONFIDENTIAL</b>					

## 32. Additional remarks (include plugging procedure):

CONFIDENTIAL - TITE HOLE

Do not release well information without permission from Shenandoah Energy Inc.

## 33. Circle enclosed attachments:

- |   |                    |               |                       |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.)     | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis   | 7. Other:     |                       |

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #13105 Verified by the BLM Well Information System.  
For SHENANDOAH ENERGY INC, sent to the Vernal**

Name (please print) J.T. CONLEYTitle DIVISION MANAGERSignature (Electronic Submission)Date 07/25/2002

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU16551
2. Name of Operator SHENANDOAH ENERGY INC		6. If Indian, Allottee or Tribe Name
3a. Address 11002 EAST 17500 SOUTH VERNAL, UT 84078-8526		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 435.781.4309 Fx: 435.781.4329		8. Well Name and No. STIRRUP UNIT PURDY 7W-34-7-21
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 34 T7S R21E SWNE 2060FNL 2005FEL		9. API Well No. 43-047-34380-00-S1
		10. Field and Pool, or Exploratory UNDESIGNATED UNKNOWN
		11. County or Parish, and State UINTAH COUNTY, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Shenandoah Energy Inc. proposes to change the name of the WV 7W-34-8-21 to Stirrup Unit Purdy 7W-34-8-21.

**RECEIVED**

JUL 29 2002

**DIVISION OF  
OIL, GAS AND MINING**

14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #12823 verified by the BLM Well Information System For SHENANDOAH ENERGY INC, sent to the Vernal Committed to AFMSS for processing by MARCIA KULESZA on 07/16/2002 (02MK0161SE)</b>	
Name (Printed/Typed) RALEEN SEARLE	Title REGULATORY AFFAIRS ANALYST
Signature (Electronic Submission)	Date 07/16/2002

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By KIRK FLEETWOOD	Title PETROLEUM ENGINEER	Date 07/29/2002 ✓
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Vernal

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\***

# Revisions to Operator-Submitted EC Data for Sundry Notice #12823

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	OTHER NOI	OTHER NOI
Lease:	UTU-16551	UTU16551
Agreement:	N/A	
Operator:	SHENANDOAH ENERGY INC. 11002 EAST 17500 SOUTH VERNAL, UT 84078 Ph: 435.781.4309 Fx: 435.781.4323	SHENANDOAH ENERGY INC 11002 EAST 17500 SOUTH VERNAL, UT 84078-8526 Ph: 435.781.4300 Fx: 435.781.4329
Admin Contact:	RALEEN SEARLE PREPARER E-Mail: rsearle@shenandoahenergy.com  Ph: 435.781.4309 Fx: 435.781.4329	RALEEN SEARLE REGULATORY AFFAIRS ANALYST E-Mail: rsearle@shenandoahenergy.com  Ph: 435.781.4309 Fx: 435.781.4329
Tech Contact:		
Location:		
State:	UT	UT
County:	UINTAH	UINTAH
Field/Pool:	UNESIGNATED FIELD	UNDESIGNATED UNKNOWN
Well/Facility:	WONSITS VALLEY 7W-34-7-21 Sec 34 T7S R21E SWNE 2060FNL 2005FEL	STIRRUP UNIT PURDY 7W-34-7-21 Sec 34 T7S R21E SWNE 2060FNL 2005FEL



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

*will file*  
**RECEIVED**

NOV 27 2002

DIV. OF OIL, GAS & MINING

IN REPLY REFER TO  
UT-922

November 27, 2002

Shenandoah Energy, Inc.  
c/o UnitSource Incorporated  
11184 Huron Street, Suite 16  
Denver, Colorado 80234

Re: Initial Wasatch-Mesaverde Formation PA "A" 13676  
Initial Wasatch-Mesaverde Formation PA "B" 13677  
Initial Wasatch-Mesaverde Formation PA "C" 13678  
Initial Wasatch-Mesaverde Formation PA "D" 13679  
Stirrup Unit  
Uintah County, Utah

Gentlemen:

The Initial Wasatch-Mesaverde Formation PA "A", Stirrup Unit, UTU80250A, is hereby approved effective as of December 1, 2002, pursuant to Section 10 of the Stirrup Unit Agreement, Uintah County, Utah. The Initial Wasatch-Mesaverde Formation Participating Area "A" results in an Initial Participating Area of 160.00 acres and is based upon the completion of Well No. 2W-9-8-21, API No. 43-047-33905, located in the NW¼ NE¼ of Section 9, Township 8 South, Range 21 East, SLM&B, Federal Unit Tract No. 3, Lease No. UTU0805, as being a well capable of producing unitized substances in paying quantities.

The Initial Wasatch-Mesaverde Formation PA "B", Stirrup Unit, UTU80250B, is hereby approved effective as of December 1, 2002, pursuant to Section 10 of the Stirrup Unit Agreement, Uintah County, Utah. The Initial Wasatch-Mesaverde Formation Participating Area "B" results in an Initial Participating Area of 160.56 acres and is based upon the completion of Well No. 2W-3-8-21, API No. 43-047-34207, located in the NW¼ NE¼ of Section 3, Township 8 South, Range 21 East, SLM&B, Federal Unit Tract No. 2, Lease No. UTU0802, as being a well capable of producing unitized substances in paying quantities.

The Initial Wasatch-Mesaverde Formation PA "C", Stirrup Unit, UTU80250C, is hereby approved effective as of December 1, 2002, pursuant to Section 10 of the Stirrup Unit Agreement, Uintah County, Utah. The Initial Wasatch-Mesaverde Formation Participating Area "C" results in an Initial Participating Area of 321.10 acres and is based upon the completion of Well No. 2W-2-8-21, API No. 43-047-34034, located in the NW¼ NE¼ of Section 2, Township 8 South, Range 21 East, SLM&B, Federal Unit Tract No. 19, State Lease ML-2785; Well No. 11W-36-7-21, API No. 43-047-34067, located in the NE¼ SW¼ of Section 36, Township 7 South, Range 21 East, SLM&B, Federal



Unit Tract No. 21, State Lease ML-47040; Well No. 13W-36-7-21, API No. 43-047-34100, located in the SW¼ SW¼ of Section 36, Township 7 South, Range 21 East, SLM&B, Federal Unit Tract No. 21, State Lease ML-47040, as being wells capable of producing unitized substances in paying quantities.

The Initial Wasatch-Mesaverde Formation PA "D", Stirrup Unit, UTU80250D, is hereby approved effective as of December 1, 2002, pursuant to Section 10 of the Stirrup Unit Agreement, Uintah County, Utah. The Initial Wasatch-Mesaverde Formation Participating Area "D" results in an Initial Participating Area of 160.00 acres and is based upon the completion of Well No. 7W-34-7-21, API No. 43-047-34380, located in the SW¼ NE¼ of Section 34, Township 7 South, Range 21 East, SLM&B, Federal Unit Tract No. 5, Lease No. UTU16551, as being a well capable of producing unitized substances in paying quantities.

Copies of the approved request are being distributed to the appropriate agencies and one copy is returned herewith. Please advise all interested parties of the establishment of the Initial Wasatch-Mesaverde Formation Participating Area "A", Initial Wasatch-Mesaverde Formation Participating Area "B", Initial Wasatch-Mesaverde Formation Participating Area "C" and Initial Wasatch-Mesaverde Formation Participating Area "D", Stirrup Unit, and their effective dates.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks  
Chief, Branch of Fluid Minerals

Enclosure

bcc: Minerals Adjudication Group w/exhibit b  
Division of Oil, Gas & Mining  
SITLA  
Stirrup Unit w/enclosure  
MMS - Data Management Division (Attn: Rose Davalos)  
Field Manager - Vernal w/enclosure  
Agr. Sec. Chron.  
Fluid Chron.

UT922:TATHOMPSON:tt:11/27/02

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

~~CONFIDENTIAL~~

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. SU PURDY 7W 34 7 21
2. Name of Operator SHENANDOAH ENERGY		9. API Well No. 43-047-34380
3a. Address 11002 E. 17500 S. VERNAL, UT 84078	3b. Phone No. (include area code) Ph: 435.781.4342 Fx: 435.781.4357	10. Field and Pool, or Exploratory UNDESIGNATED
4. Location of Well <i>(Footage, Sec., T., R., M., or Survey Description)</i>  Sec 34 T7S R21E SWNE 2060FNL 2005FEL		11. County or Parish, and State  Uintah County, UT


12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Shenandoah Energy Inc. requests permission to plug back this well from the existing Wasatch perforated intervals 8094' - 8100'; 8126' - 8134' and 8152' - 8162' due to lack of economic production of less than 50 MCFPD and to test two upper Wasatch zones from 7524' - 7720' (3 intervals) and 6810' - 6830'. The bottom zones would be isolated with a composite bridge plug until the upper requested intervals are tested. Your approval of this recompletion is requested.

COPY SENT TO OPERATOR  
Date: 12-18-02  
Initials: CHD

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #16909 verified by the BLM Well Information System For SHENANDOAH ENERGY, sent to the Vernal	
Name (Printed/Typed) JIM SIMONTON	Title COMPLETION MANAGER
Signature (Electronic Submission) 	Date 12/13/2002

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

<u>Approved By</u> _____ Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	<u>Title</u> _____ Office _____	<u>Date</u> _____
---	------------------------------------	-------------------

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

**\*\* ORIGINAL \*\*** **ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***  
 Federal Approval  
 Action Is Necessary  
**RECEIVED**  
 DEC 18 2002

Date: 12/18/02  
By: [Signature]

**CONFIDENTIAL**

DEC 18 2002  
DIV. OF OIL, GAS & MINING

May 28, 2003

Division of Oil, Gas, & Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

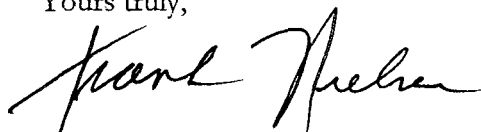
**Attention: John Baza/Jim Thompson**

Gentlemen:

This will serve as notice that through the internal corporate changes described below, activities formerly conducted in the name of either Shenandoah Operating Company, LLC (SOC) and/or Shenandoah Energy, Inc. (SEI) will hereafter be conducted in the name of QEP Uinta Basin, Inc.: i) the Shenandoah entities were purchased in July, 2001 by Questar Market Resources, Inc., which is a mid-level holding company for the non-utility businesses of Questar Corporation, ii) Shenandoah Operating Company, LLC has now been merged into Shenandoah Energy, Inc. (SEI), iii) Shenandoah Energy, Inc. has now been re-named **QEP Uinta Basin, Inc.** pursuant to a State of Delaware Amended and Restated Certificate of Incorporation, iv) the same employees will continue to be responsible for operations of the former SOC and SEI properties, both in the field and in the office. Accordingly, the change involves only an internal corporate name change and no third party change of operator is involved. Please alter your records to reflect the entity name change. Attached is a spreadsheet listing all wells affected by this change.

Should you have any questions, please call me at 303 - 308-3056.

Yours truly,



Frank Nielsen  
Division Landman

Enclosure

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JUN 02 2003

DIV OF OIL, GAS & MINING

well_name	Sec	T	R	api	Entity	Lease Type	type	stat	
WV 2W-9-8-21	09	080S	210E	4304733905	13676	Federal	GW	P	
WV 2W-3-8-21	03	080S	210E	4304734207	13677	Federal	GW	P	
SU PURDY 7W-34-7-21	34	070S	210E	4304734380	13679	Federal	GW	S	C
WV 2W-2-8-21	02	080S	210E	4304734034	13678	State	GW	P	
WV 11W-36-7-21	36	070S	210E	4304734067	13678	State	GW	P	
WV 13W-36-7-21	36	070S	210E	4304734100	13678	State	GW	P	



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

IN REPLY REFER TO  
UT-922

June 9, 2003

QEP Uinta Basin, Inc.  
1050 17<sup>th</sup> Street, Suite 500  
Denver, Colorado 80265

Re: Stirrup Unit  
Uintah County, Utah

Gentlemen:

On May 30, 2003, we received an indenture dated February 1, 2003, whereby Shenandoah Energy, Inc. changed its name and QEP Uinta Basin, Inc. was designated as Successor Unit Operator for the Stirrup Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective June 9, 2003. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under Stirrup Unit Agreement.

Your nationwide (Eastern States) oil and gas bond No. B000024 will be used to cover all operations within the Stirrup Unit.

It is requested that you notify all interested parties of the name change of unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks  
Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager - Vernal (w/enclosure)  
SITLA  
Division of Oil, Gas & Mining  
Minerals Adjudication Group  
File – Stirrup Unit (w/enclosure)  
Agr. Sec. Chron  
Fluid Chron

UT922:TAThompson:tt:6/9/03

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir  
Use "APPLICATION FOR PERMIT--" for such proposals

***SUBMIT IN TRIPLICATE***

1. Type of Well

Oil Gas  
☐ Well ☒ Well ☐ Other

**CONFIDENTIAL**

2. Name of Operator

**SHENANDOAH ENERGY INC.**

3. Address and Telephone No.

**11002 E. 17500 S. VERNAL, UT 84078-8526**

Contact: [dcaldwell@shenandoahenergy.com](mailto:dcaldwell@shenandoahenergy.com)

**435-781-4342 Fax 435-828-5044**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SWNE Sec 34 T7S R21E 2060' FNL 2005' FEL**

5. Lease Designation and Serial No.

**UTU-16551**

6. If Indian, Allottee or Tribe Name

**N/A**

7. If Unit or CA, Agreement Designation

**N/A**

8. Well Name and No.

**WV 7W 34-7-21**

9. API Well No.

**43-047-34380**

10. Field and Pool, or Exploratory Area

**Undesignated**

11. County or Parish, State

**UINTAH COUNTY, UTAH**

12. **CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**TYPE OF SUBMISSION**

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

**TYPE OF ACTION**

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Well Spud  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

**This well was spud on 4/04/02. Drilled 12 1/4" to 672' KB. Ran 14 jts 9 5/8", K-55, 36# casing to 612' KB.**

3 - BLM, 2- Utah OG&M, 1 - Denver, 1 - file Word file-server

**CONFIDENTIAL**

RECEIVED  
APR 18 2002  
DIVISION OF  
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct

Signed

Devin R. Caldwell

Title

Authorized Representative

Date

4/15/02

(This space for Federal or State office use)

Approved by:

Title

Date

Conditions of approval, if any

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

bc: JFO,MMS, ES RF, 930 RF, 932.34 RF, E-932: wbf:07 /07/03:440-1536/ QEP Unita Basin  
MEQ

### 3. FILE

### Designation of Agent/Operator

Merger

**2/1/2003**

<b>FROM:</b> (Old Operator):	<b>TO:</b> ( New Operator):
N4235-Shenandoah Energy Inc 11002 E 17500 S Vernal, UT 84078-8526	N2460-QEP Uinta Basin Inc 11002 E 17500 S Vernal, UT 84078-8526
Phone: (435) 781-4341	Phone: (435) 781-4341

**STIRRUP**

[illegible]

5. If **NO**, the operator was contacted contacted on:



6. (R649-9-2)Waste Management Plan has been received on:

IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 7/21/2003

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 7/21/2003

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 8/28/2003

2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 8/28/2003

3. Bond information entered in RBDMS on: n/a

4. Fee wells attached to bond in RBDMS on: n/a

**STATE WELL(S) BOND VERIFICATION:**

1. State well(s) covered by Bond Number: 965-003-032

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: ESB000024

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: 799446

**FEE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 965-003-033

2. The **FORMER** operator has requested a release of liability from their bond on: n/a

The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU-16551	
2. Name of Operator QEP UINTAH BASIN DIVISION <i>SHEKANDRAH ENERGY INC</i>		6. If Indian, Allottee or Tribe Name	
3a. Address 11002 E. 17500 S. VERNAL, UT 84078		7. If Unit or CA/Agreement, Name and/or No.	
3b. Phone No. (include area code) Ph: 435.781.4342 Fx: 435.781.4357		8. Well Name and No. SU PURDY 7W 34 7 21	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 34 T7S R21E SWNE 2060FNL 2005FEL		9. API Well No. 43-047-34380	
		10. Field and Pool, or Exploratory UNDESIGNATED	
		11. County or Parish, and State UINTAH COUNTY, UT	

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Recompletion to plug back this well from existing Wasatch perforated intervals 8094' - 8100'; 8126' - 8134' & 8152' - 8162' due to lack of economic production of less than 50 MCFPD & to test (2) upper Wasatch zones 7524' - 7720' (3 intervals) and 6810' - 6830'.

- 1 - The bottom zones are isolated with a composite bridge plug @ 8050'. Pressure test plug & csg to 3500# & held OK.  
2 - Perf & sand frac 7523-29', 7551-7559' & 7714-19'.  
3 - Perf & sand frac 6808-28'.  
4 - RIH w/ 3-7/8" bit & 2-3/8" tbg & broke circ @ 6250'. Clean out sand to composite BP @ 8050'.  
5 - RIH w/ production tubulars as follows: NC; 6' tbg sub; 4' perf sub; 1 jt; SN; 1 jt tbg;  
4-1/2" tbg anchor catchers; 217 jts of tbg to surface. All tbg is 2-3/8" EUE 8rd J-55 4.7#. Tbg tail @ 6865' & SN @ 6824' and anchor @ 6790' KB depths.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #20203 verified by the BLM Well Information System  
For QEP UINTAH BASIN DIVISION, sent to the Vernal

Name (Printed/Typed) JIM SIMONTON	Title COMPLETION MANAGER
Signature <i>Jim Simonton (df)</i> (Electronic Submission)	Date 04/29/2003

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

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MAY 01 2003**CONFIDENTIAL** DIV. OF OIL, GAS & MINING

32. Additional remarks, continued

6 - RIH w/ new 2"x1-1/4"x16'x18x20' RHAC Trico Pump and 270 - 3/4" "T-66" sucker rods. Space out with a 2'; 4'; 6' and 8' x 3/4" pony rods and a new 1-1/4" x 26' polish rod.

7 - 1/29/03 Final report of this re-completion in the upper Wasatch.

8 - Perfs (Lower Wasatch): 8094-8100'; 8126-34'; 8152-62' - New Perfs: 7523-29'; 7551-59'; 7714-19'; & 6808-28'. *Completed 1-28-03/Dahn Caldwell*

NOTE: Upon the testing of these upper Wasatch perfs & before abandoning the lower Wasatch perfs (8094' - 8162'), the composite bridge plug will either be drilled out or a CIBP set immediately above the composite BP as required by BLM.

CONFIDENTIAL - TIGHT HOLE

Do not release well information without permission from "QEP Uintah Basin Division".

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**

**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.

U-16551

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Questar Exploration and Production Co.

3a. Address

11002 E. 17500 S. VERNAL, UT 84078-8526

3b. Phone No. (include area code)

(435) 781-4341

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

SU Purdy 7W-34-7-21

9. API Well No.

43-047-34380

10. Field and Pool or Exploratory Area

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2060' FNL, 2005' FEL, SWNE, SECTION 34, T7S, R21E, SLBM

11. Country or Parish, State

Utah

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☒ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☐ Other

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

The operator requests approval to add additional perforations in Green River formation as follows:

1. Set RBP @ 7500', cap with minimum 35' cement
2. Perforate 6240'-6258', 6190'-6194', 6180'-6185', 5928'-5936' with 4 spf @ 90 degree phasing
3. Acidize the new perfs with 3000 gallons 15% HCL
4. Swab test new perfs
5. Return well to production

COPY SENT TO OPERATOR

Date: 7-7-2009

Initials: KS

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JUN 29 2009

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)

Kirk Fleetwood

Title Petroleum Engineer

Signature

Date 06/25/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Pet-Eng.

Date

7/2/09

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

DOG M

Federal Approval Of This  
Action Is Necessary

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

## Operations Summary Report

Legal Well Name: SU PURDY 7W-34-7-21  
 Common Well Name: SU PURDY 7W-34-7-21  
 Event Name: RE-COMPLETION  
 Contractor Name: POOL WELL SERVICE  
 Rig Name: POOL

43-049-3480  
 TONS R21E S-34  
 Start: 7/23/2009  
 Rig Release: 7/31/2003  
 Rig Number:

Spud Date: 4/4/2002  
 End: 8/5/2009  
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
7/24/2009	06:00 - 16:00	10.00	LOC	4		<p>Recompletion            On 7/23/09 Road rig 13 miles to location. MIRU. SICP = 0#. SITP = 0#. Hot oiler pumped 90 bbls production water treated with snake oil down csg @ 220* (csg filled w/ 40 bbls). Unseated rod pump, flushed rods w/ 60 bbls production water w/ snake oil @ 220*. POOH w/ 270 - 3/4" plain rods &amp; rod pump. X-over equipment for tbq, ND WH &amp; flowline, release TAC &amp; set @ 6787'. NU BOP's, RU tbq equipment, POOH w/ 217 jts tbq, TAC, 1 jt, SN, 1 jt, 4' perf sub, 6' reg sub &amp; NC CWI &amp; SDFD.</p> <p>24 Hour Forecast: Will make bit &amp; scraper run &amp; WL work.</p> <p>Csg Size: 4-1/2" 11.6# J-55 &amp; N-80            Csg Depth: 8,080'</p>
7/25/2009	06:00 - 16:00	10.00	LOG	4		<p>Recompletion            On 7/24/09 @ 7:00 - SICP = 0 psi. Tally &amp; RIH w/ 3-7/8" bit, 4-1/2" csg scraper &amp; 242 jts 2-3/8" J-55 tbq to 7560'. POOH w/ 60 jts tbq, RU pump. With hole standing full, circ 75 bbls 2% KCL to flush oil out of tbq. Finish POOH w/ tbq &amp; scraper. RU Lone Wolf WL, set CIBP @ 7500', RIH w/ dump bailer &amp; cement, couldn't get bailer past 840', RD WL. RIH w/ 2-3/8" SN &amp; tbq w/ EOT @ 6617'. SDFWE.</p> <p>24 Hour Forecast: Will swab test Wasatch perfs @ 6808' - 6828'.</p> <p>LLTR: 70 bbls</p> <p>Csg Size: 4-1/2" 11.6# J-55 &amp; N-80            Csg Depth: 8,080'</p>
7/28/2009	06:00 - 16:00	10.00	SWAB	1		<p>Recompletion            On 7/27/09 - SICP = Lite vac. SITP = Lite vac. RIH w/ swab. IFL @ 600' (2 1/4 bbls free oil on run #1). Made 28 swab runs, recovered 100.5 bbls of fluid w/ a final oil cut of 20% &amp; a FFL of 6400'. Fluid entry for the last hour was 2 1/2 BPH w/ very lite gas. SWIFN.</p> <p>24 Hour Forecast: Will check FL &amp; oil cut. POOH w/ tbq &amp; perforate Lower Green River.</p> <p>LLTR: -5 bbls</p> <p>Csg Size: 4-1/2" 11.6# J-55 &amp; N-80            Csg Depth: 8,080'</p>
7/29/2009	06:00 - 16:00	10.00	SWAB	1		<p>Recompletion            On 7/28/09 - SICP = 20#, SITP = 25#. Blow well down to 0 psi w/ no fluid recovery. With tbq tail @ 6617', RIH w/ swab. IFL @ 4600'. Made 1 run, recovered 2-1/2 bbls of free oil, 6 bbls total fluid. 25 bbls entry overnight. RD swab. POOH w/ 2-3/8" tbq &amp; RU Lone Wolf WL. Perf 6240' - 6258' (Computalog CDL dated 5/30/02) w 3-1/8" gun, 4 JSPF @ 90* phasing. 0 pressure increase. RD WL, RIH w/ 4-1/2" WLTC RBP, retrieving head, 1 jt, SN &amp; 203 jts 2-3/8" tbq. Set RBP @ 6366'. Pull tbq tail to 6246'. Loaded hole w/ 70 bbls 2% KCL. Broke perfs down w/ 700# psi, pumped 10 bbls 2% KCL @ 2 BPM &amp; 850 psi. ISIP = 650 psi. Bled off pressure, RU &amp; RIH w/ swab. IFL @ surface. Made 10 swab runs recovered 50 bbls fluid showing 0% oil cut, FFL @ 3400' &amp; 47 bbls</p>

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AUG 06 2009

DIV. OF OIL, GAS &amp; MINING

## Operations Summary Report

Legal Well Name: SU PURDY 7W-34-7-21  
 Common Well Name: SU PURDY 7W-34-7-21  
 Event Name: RE-COMPLETION  
 Contractor Name: POOL WELL SERVICE  
 Rig Name: POOL

Start: 7/23/2009 Spud Date: 4/4/2002  
 Rig Release: 7/31/2003 End: 8/5/2009  
 Rig Number: Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
7/29/2009	06:00 - 16:00	10.00	SWAB	1		<p>load left to rec. SWIFN.</p> <p>24 Hour Forecast: Will continue to swab test.</p> <p>LLTR: 47 bbls</p> <p>Csg Size: 4-1/2" 11.6# J-55 &amp; N-80 Csg Depth: 8,080'</p> <p>Perfs Green River 6240' - 6258'</p>
7/30/2009	06:00 - 16:00	10.00	SWAB	1		<p>Recompletion On 7/29/09 - SICP = 0 psi, SITP = 0 psi. Blow well down to 0 psi w/ no fluid recovery. W/ tbg tail @ 6246'. RIH w/ IFL @ 3000'. Rec 300' (1 bbl) of free oil on run #1. Had 5-1/2 bbls entry overnight. Made 19 swab runs, recovered 49 bbls of fluid, showing 2% oil cut.) entry last, swab run was dry w/ FL @ 6175' pulling from SN @ 6214'. Start hourly runs @ 12:00. Made an additional 3 hourly runs showing 50' of entry per hour &amp; 90% oil cut last 2 runs. Recovered a total of 49 1/2 bbls. FFL @ 6150'. SWIFN.</p> <p>24 Hour Forecast: Will check fluid level, pull RBP up hole. Perforate new zone.</p> <p>LLTR: 2.5 bbls over</p> <p>Csg Size: 4-1/2" 11.6# J-55 &amp; N-80 Csg Depth: 8,080'</p>
7/31/2009	06:00 - 16:00	10.00	PERF	2		<p>Recompletion On 7/30/09 - SICP = 0 psi. SITP = 0 psi. Blow well down w/ 0 bbls fluid recovery. RIH w/ swab. IFL @ 6000'. Rec 100' of free oil (1/4 - bbl) 2 bbls entry overnight. RD swab equipment. RIH w/ 4 jts, latch on &amp; release RBP set @ 6366'. Pull up hole &amp; reset RBP @ 6220'. POOH w/ tbg. RU Lone Wolf WL, perforate the following intervals per Computalog CBL dated 5/30/02 6190-94'; 6180-85' &amp; 5928-36'. Using 3 1/8" gun loaded 4 JSPF @ 90* phasing. 0 pressure increase. RD WL. RIH w/ RN, 1 jt, SN &amp; 187 jts tbg. Tbg tail @ 5875'. RU Superior Well Service, load hole w/ 72 bbls 2% KCL. (Rec 3 bbls of oil). Pumped 3000 gals 15% HCL w/ additives &amp; Bio balls as follows: 4 bbls 2% KCL, 24 bbls acid, 24 bbls acid w/ 121 Bio Balls, 24 bbls acid &amp; flushed w/ 28 bbls 2% KCL. Broke @ 2600#. Max psi = 2572#, Max rate = 4.1 BPM; avg psi = 2400#; avg rate = 4 BPM. ISIP = 1060#. RD Superior Well Service. Open tbg up to tank full/open w/ 25# psi. Rec 45 bbls of fluid/acid &amp; died. Loaded tbg w/ 25 bbls 2% KCL. SDFN.</p> <p>24 Hour Forecast: Will swab test well.</p> <p>LLTR: 171 bbls</p> <p>Csg Size: 4-1/2" 11.6# J-55 &amp; N-80 Csg Depth: 8,080'</p>

## Operations Summary Report

Legal Well Name: SU PURDY 7W-34-7-21  
 Common Well Name: SU PURDY 7W-34-7-21  
 Event Name: RE-COMPLETION  
 Contractor Name: POOL WELL SERVICE  
 Rig Name: POOL

Start: 7/23/2009 Spud Date: 4/4/2002  
 Rig Release: 7/31/2003 End: 8/5/2009  
 Rig Number: Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
7/31/2009	06:00 - 16:00	10.00	PERF	2		Perfs - Green River 6240' - 6258' 6190' - 6194' 6180' - 6185' 5928' - 5936'
8/3/2009	06:00 - 16:00	10.00	SWAB	1		Recompletion On 7/31/09 SICP = 10 psi, SITP = 100 psi. Blow well down w/ 0 fluid recovery. RIH w/ 7 jts tbg. EOT @ 6091' & SN @ 6057'. RU & RIH w/ swab. IFL @ 2300' (first 21 bbls rec. were 100% oil). Made 28 total swab runs recovering 89-1/2 bbls. Showing 95% oil cut for final hour, lite gas, PH = 6, w/ 2-1/2 bbls entry for last hour. FFL @ 5800'. SDFWE @ 3:30 PM.  24 Hour Forecast: Will check FL & POOH w/ RBP.  LLTR: 81.5 bbls  Csg Size: 4-1/2" 11.6# J-55 & N-80 Csg Depth: 8,080'
8/4/2009	06:00 - 16:00	10.00	SWAB	1		Recompletion On 8/3/09 SICP = 200# & SITP = 150#. Bled off well w/ no fluid recovery. RU swab. IFL @ 3000'. On the 1st run recovered 1500' of 100% free oil (5 bbls). Make a total of 18 swab runs & recovered a total of 75 bbls of fluid w/ an average of 95% oil cut. Lite gas & a final PH = 5. Make 1 final hourly run w/ FL @ 5425' & had 5 bbls of 95% oil entry for the hour & recovered 2 bbls of fluid w/ the swab run. FFL @ 5425' while pulling from the SN @ 6057'. RD swab. RIH w/ 6 jts of tbg & ret head on bottom & latch onto RBP @ 6220'. Release RBP & POOH w/ plug & tbg. SIFN.  24 Hour Forecast: Will RIH w/ production tbg for rod pumping & swab well to test all open intervals together prior to running rods & pump.  LLTR: 4.5 bbls  Csg Size: 4-1/2" 11.6# J-55 & N-80 Csg Depth: 8,080'
8/5/2009	06:00 - 16:00	10.00	SWAB	1		Perfs 6240-58' 6190-94' 6180-85' 5928-36' Tight Hole - Recompletion On 8/4/09 SICP = 50#. Bled off w/ no fluid recovery. RIH w/ production tubulars for rod pump & anchor catcher hung up @ 25' (Nabors). Pull AC & change out to Weatherford AC & RIH w/ tubulars as follows: NC; 1 jt of tbg; SN; AC; 217 jts of tbg to surface. All tbg is 2-3/8" EUE 8rd 4.7# J-55. Set AC @ 6781' in 15M# tension. SN @ 6785' & tbg tail @ 6817'. ND BOP's prior to setting anchor catcher & NUWH. RU swab. IFL @ 3400' which gives 28 bbls of inflow overnight. Make a total of 12

## Operations Summary Report

Legal Well Name: SU PURDY 7W-34-7-21  
 Common Well Name: SU PURDY 7W-34-7-21  
 Event Name: RE-COMPLETION  
 Contractor Name: POOL WELL SERVICE  
 Rig Name: POOL

Start: 7/23/2009      Spud Date: 4/4/2002  
 Rig Release: 7/31/2003      End: 8/5/2009  
 Group:  
 Rig Number:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/5/2009	06:00 - 16:00	10.00	SWAB	1		<p>swab runs &amp; recovered 48 bbls of fluid w/ an avg of 89% oil cut &amp; lite gas w/ 4 swab runs in the last hour for a last hour entry of 13 bbls &amp; a FFL @ 5125' &amp; pulling from 6600'. RD swab &amp; SIFN.</p> <p>24 Hour Forecast: Will RIH w/ rods &amp; pump.</p> <p>LLTR: 0 bbls</p> <p>Csg Size: 4-1/2" 11.6# J-55 &amp; N-80 Csg Depth: 8,080'</p> <p>Perfs 6240-58' 6190-94' 6180-85' 5928-36'</p>
8/6/2009	06:00 - 16:00	10.00	TRP	6		<p>Tight Hole - Recompletion On 8/5/09 SICP = 75#. Bled off. RIH w/ 86 - 3/4" rods &amp; lay down. Bucket test new pump - OK. RIH w/ pump &amp; rods &amp; seat pump &amp; load tbg w/ 10 bbls of water &amp; long stroke pump to test pump &amp; tbg to 800# &amp; held OK. NOTE: Flushed tbg w/ 50 bbls of snake oil/water early this AM prior to running rods &amp; pump. Clamp off polish rod w/ 6' out &amp; 12' above tag. SI the well &amp; RDMO Basin WS. Turn well over to production department. FINAL REPORT OF THIS RECOMPLETION.</p> <p>LLTR: 60 bbls</p> <p>Csg Size: 4-1/2" 11.6# J-55 &amp; N-80 Csg Depth: 8,080'</p> <p>TD : 8800' PBTD: CIBP @ 7500' &amp; 35' Cement as of 7/24/09</p> <p>Open Perfs 6808-28' 6240-58' 6190-94' 6180-85' 5928-36'</p> <p>Tbg Detail: KB = 14' Stretch = 2.58' 217 jts of tbg = 6765.21' B-2 AC = 3.30' SN = 1.10' 1 Jt of tbg = 31.14' NC = 0.44 EOT @ 6817.77' All tbg is 2-3/8" EUE, 8rd, 4.7#, J-55. Tbg Tail @ 6817.77'; SN = 6785.09'; B-2 Anchor Catcher w/ 15M# tension @ 6781.79'.</p> <p>Pump Detail (8/5/09):</p>



## Operations Summary Report

Legal Well Name: SU PURDY 7W-34-7-21  
 Common Well Name: SU PURDY 7W-34-7-21  
 Event Name: RE-COMPLETION  
 Contractor Name: POOL WELL SERVICE  
 Rig Name: POOL

Spud Date: 4/4/2002  
 Start: 7/23/2009      End: 8/5/2009  
 Rig Release: 7/31/2003      Group:  
 Rig Number:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/6/2009	06:00 - 16:00	10.00	TRP	6		2"x1-1/4"x16x20 RHAC Pump #QS 31: Max Stroke = 176"  Rods Detail (8/5/09): 1-1/4" x 26' Polish Rod 1 - 6'; 1 - 8'x7/8" Pony Rods 85 - 7/8" "D" Plain Rods w/ Slim Hole Couplings 184 - Weatherford "D" Rods - 3/4" Plain Rods

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**5. Lease Serial No.  
UTU-16551

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**7. If Unit of CA/Agreement, Name and/or No.  
UTU80250D

## 1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.  
SU PURDY 7W 34 7 212. Name of Operator  
Questar Exploration & Production Co.9. API Well No.  
43-047-343803a. Address  
11002 East 17500 South - Vernal, UT 840783b. Phone No. (include area code)  
435.781.4342 - Dahn Caldwell10. Field and Pool or Exploratory Area  
UNDESIGNATED4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2060' FNL, 2005' FEL, SWNE, SEC 34-T7S-R21E11. Country or Parish, State  
Uintah County, Utah

## 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

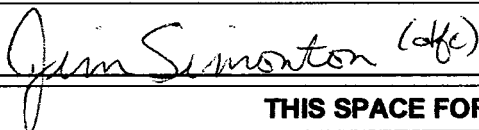
Started recompletion of this well on July 23, 2009. Completed the work on August 5, 2009.

- 1 - On 7/23/09 MIRU.
- 2 - RU Lone Wolf WL & set CIBP @ 7500'.
- 3 - Swab perfs 6808' - 6828'.
- 4 - RU Lone Wolf WL. Perforate 6240' - 6258'. Set RBP @ 6366'.
- 5 - Release RBP set @ 6366'. Pull up hole & reset RBP @ 6220'.
- 6 - RU Lone Wolf WL - Perforate Green River Intervals 6190-94'; 6180-85' & 5928-5936'.
- 7 - Pumped 3,000 gals 15% HCL w/ additives.
- 8 - Latch onto RBP @ 6220' & release RBP & POOH w/ plug & tbg.
- 9 - RIH w/ production tubulars for rod pump & anchor catcher. Pull AC & change out to Weatherford AC & RIH w/ tubulars as follows: NC; 1 jt of tbg; SN; AC; 217 jts of tbg to surface. All tbg is 2-3/8" EUE 8rd 4.7# J-55. SN @ 6785' & tbg tail @ 6817'.
- 10 - Finished Recompletion on 8/5/09. Currently producing out of Wasatch & Green River Zones.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
Jim Simonton

Title Completion Supervisor

Signature



Date 08/10/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully transmitting false information or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

RECEIVED

AUG 13 2009

DIV. OF OIL, GAS &amp; MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an**  
**abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.  
UTU-16551

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
Questar Exploration & Production Co.

3a. Address  
11002 East 17500 South - Vernal, UT 84078

3b. Phone No. (include area code)  
435.781.4342 - Dahn Caldwell

7. If Unit of CA/Agreement, Name and/or No.  
UTU80250D

8. Well Name and No.  
SU PURDY 7W 34 7 21

9. API Well No.  
43-047-34380

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2060' FNL, 2005' FEL, SWNE, SEC 34-T7S-R21E

10. Field and Pool or Exploratory Area  
UNDESIGNATED

11. Country or Parish, State  
Uintah County, Utah

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Started recompletion of this well on July 23, 2009. Completed the work on August 5, 2009.

- 1 - On 7/23/09 MIRU.
- 2 - RU Lone Wolf WL & set CIBP @ 7500'.
- 3 - Swab perfs 6808' - 6828'.
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- 6 - RU Lone Wolf WL - Perforate Green River Intervals 6190-94'; 6180-85' & 5928-5936'.
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- 10 - Finished Recompletion on 8/5/09. Currently producing out of Wasatch & Green River Zones.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
Jim Simonton

Title Completion Supervisor

Signature

*Jim Simonton (offc)*

Date 08/10/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any false statement or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

RECEIVED  
CONFIDENTIAL

AUG 13 2009

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
UTU-16551

1a. Type of Well ☒ Oil Well ☒ Gas Well ☐ Dry ☐ Other  
b. Type of Completion: ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr..  
Other: RECOMPLETION - ADD PERFS

6. If Indian, Allottee or Tribe Name  
N/A

7. Unit or CA Agreement Name and No.  
UTU80250D

2. Name of Operator  
Questar Exploration & Production Co.

8. Lease Name and Well No.  
SU PURDY 7W 34 7 21

3. Address 11002 EAST 17500 SOUTH - VERNAL, UT 84078

3a. Phone No. (include area code)  
435.781.4342 - Dahn Caldwell

9. AFI Well No.  
43-047-34380

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

At surface 2060' FNL, 2005' FEL, SWNE, SEC 34-T7S-R21E

2060' FNL, 2005' FEL, SWNE, SEC 34-T7S-R21E

At top prod. interval reported below

At total depth 2060' FNL, 2005' FEL, SWNE, SEC 34-T7S-R21E

10. Field and Pool or Exploratory  
UNDESIGNATED

11. Sec., T., R., M., on Block and  
Survey or Area SEC 34-T7S-R21E

12. County or Parish  
UINTAH

13. State  
UT

14. Date Spudded

15. Date T.D. Reached

16. Date Completed 08/07/2009  
☐ D & A ☒ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
KB

18. Total Depth: MD 8800'  
TVD

19. Plug Back T.D.: MD 7500'  
TVD

20. Depth Bridge Plug Set: MD 7500'  
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
NO NEW LOGS

22. Was well cored? ☒ No ☐ Yes (Submit analysis)  
Was DST run? ☒ No ☐ Yes (Submit report)  
Directional Survey? ☒ No ☐ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-3/8"	6818'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River	5928'	6258'	6190-6194' GR	3-1/8"		
B) Wasatch	6808'	6828'	6180-8615' GR	3-1/8"		
C)			5928-5936' GR	3-1/8"		
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
5928' - 6194'	Acidized w/ 3,000 gals 15% HCL w/ additives

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
8/7/2009	8/9/2009	24	→	73	0	30			Pumping Oil
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
N/A	115	N/A	→					Pumping Oil Well	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

RECEIVED CONFIDENTIAL

AUG 13 2009

DIV. OF OIL, GAS & MINING

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

## 29. Disposition of Gas (Solid, used for fuel, vented, etc.)

Sold

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

N/A

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
N/A					

## 32. Additional remarks (include plugging procedure):

Commingled the Wasatch and the Green River Intervals - we are producing from each formation.

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

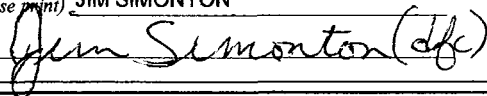
- ☐ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☐ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) JIM SIMONTON

Title COMPLETION SUPERVISOR

Signature



Date 08/11/2009

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)

**CONFIDENTIAL**

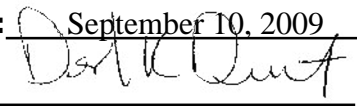
<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-16551
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> QUESTAR EXPLORATION & PRODUCTION CO		<b>7. UNIT or CA AGREEMENT NAME:</b> TAPADERO
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South , Vernal, UT, 84078		<b>8. WELL NAME and NUMBER:</b> SU PURDY 7W-34-7-21
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2060 FNL 2005 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 34 Township: 07.0S Range: 21.0E Meridian: S		<b>9. API NUMBER:</b> 43047343800000
<b>PHONE NUMBER:</b> 435 781-4362 Ext		<b>9. FIELD and POOL or WILDCAT:</b> WONSITS VALLEY
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 8/13/2009	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.**  

In Compliance with the Administrative Utah code for drilling and operating practice R649-3-22, completion into two or more pools. Questar Exploration & Production Company hereby requests the commingling of production between intervals in the SU Purdy 7W-34-7-21. Questar considers this commingling to be in the public interest in that it promotes maximum ultimate economic recovery, prevents waste, provides for orderly and efficient production of oil and gas and presents no detrimental effects from commingling the gas streams. Questar requests approval for the commingling of production of the Green River and Wasatch intervals. Based upon production logs, the proposed initial allocation is as follows: Green River - 70% ; Wasatch 30%. On an annual basis the gas will be sampled and a determination will be made of the BTU content and gas constituents. These annual samples can be used to determine if the gas allocation is changing over time. If these samples do not indicate that any adjustments in allocation are necessary they may be discontinued after the fifth anniversary of the initial production.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**  
**Date:** September 10, 2009  
**By:** 

<b>NAME (PLEASE PRINT)</b> Jan Nelson	<b>PHONE NUMBER</b> 435 781-4331	<b>TITLE</b> Permit Agent
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/12/2009	

# AFFIDAVIT OF NOTICE

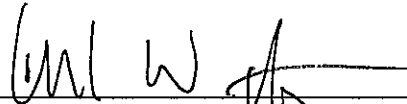
STATE OF COLORADO     )  
                                      ) ss:  
COUNTY OF DENVER     )

Chad W. Matney, being duly sworn, deposes and says:

1. That I am employed by Questar Exploration and Production Company in the capacity as a Landman. My business address is:

Independence Plaza  
1050 17<sup>th</sup> Street, Suite 500  
Denver, CO 80265

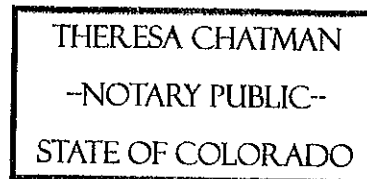
2. In my capacity as a Landman, pursuant to the provisions of Utah Administrative Rule 649-3-22, I have provided a copy of Questar Exploration and Production Company's application for completion of the SU PURDY 7W-34-7-21 well into two or more pools, in the form of Utah Division of Oil, Gas and Mining's Form 9 Sundry Notice, to owners of all contiguous oil and gas leases or drilling units overlying the pools which are the subject of that application.
3. In my capacity as a Landman, I am authorized to provide such notice of Questar Exploration and Production Company's application to contiguous owners and to make this affidavit on this 11<sup>th</sup> day of August 2009.

  
Printed Name: Chad W. Matney

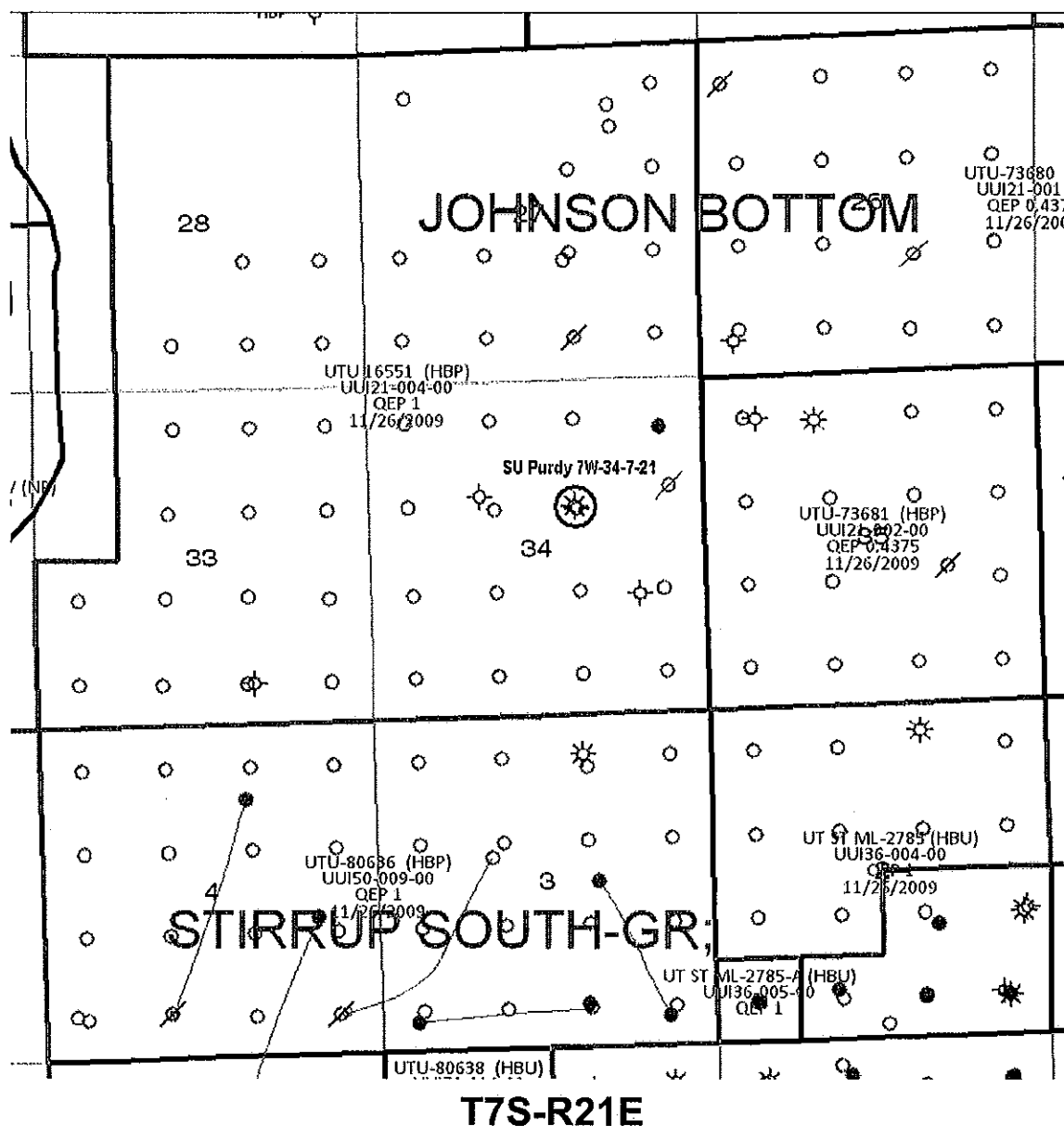
The foregoing instrument was sworn to and subscribed before me this 11<sup>th</sup> day of August 2009, by Chad W. Matney.

  
Notary Public

MY COMMISSION EXPIRES: 7/7/11



**RECEIVED** August 12, 2009



**Tw / Kmv**  
**COMMINGLED PRODUCTION**

Uinta Basin—Uintah County, Utah

**Well: SU Purdy 7W-34-7-21**  
**Lease: UTU 16551**

**QUESTAR**  
Exploration and  
Production

1050 17th St., # 500 Denver, CO 80285

Geologist:

Landman: Nate Koeniger; Chad Matney; Birgit Roesink

Date: May 4, 2009

**RECEIVED** August 12, 2009



Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET** (for state use only)

**ROUTING**  
**CDW**

Change of Operator (Well Sold)

**X - Operator Name Change**

The operator of the well(s) listed below has changed, effective:

**6/14/2010**

<b>FROM: (Old Operator):</b> N5085-Questar Exploration and Production Company 1050 17th St, Suite 500 Denver, CO 80265  Phone: 1 (303) 308-3048	<b>TO: ( New Operator):</b> N3700-QEP Energy Company 1050 17th St, Suite 500 Denver, CO 80265  Phone: 1 (303) 308-3048
--	---

CA No.				Unit:		JOHNSON BOTTOM		
WELL NAME	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED								

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/28/2010
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/28/2010
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/24/2010
- a. Is the new operator registered in the State of Utah: Business Number: 764611-0143
- a. (R649-9-2) Waste Management Plan has been received on: Requested
- b. Inspections of LA PA state/fee well sites complete on: n/a
- c. Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 8/16/2010 BIA not yet
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 8/16/2010
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/29/2010

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 6/30/2010
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/30/2010
- Bond information entered in RBDMS on: 6/30/2010
- Fee/State wells attached to bond in RBDMS on: 6/30/2010
- Injection Projects to new operator in RBDMS on: 6/30/2010
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: ESB000024
- Indian well(s) covered by Bond Number: 965010693
- a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965010695
- b. The **FORMER** operator has requested a release of liability from their bond on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: See attached
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: See attached
		7. UNIT or CA AGREEMENT NAME: See attached
1. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____	8. WELL NAME and NUMBER: See attached	
2. NAME OF OPERATOR: Questar Exploration and Production Company <i>N5085</i>		9. API NUMBER: Attached
3. ADDRESS OF OPERATOR: 1050 17th Street, Suite 500 CITY Denver STATE CO ZIP 80265	PHONE NUMBER: (303) 672-6900	10. FIELD AND POOL, OR WILDCAT: See attached
4. LOCATION OF WELL: FOOTAGES AT SURFACE: See attached COUNTY: Attached QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: <u>6/14/2010</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: Operator Name Change
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 14, 2010 Questar Exploration and Production Company changed its name to QEP Energy Company. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:

Federal Bond Number: 965002976 (BLM Reference No. ESB000024)

Utah State Bond Number: ~~965003033~~

Fee Land Bond Number: ~~965003033~~ } 965010695

BIA Bond Number: ~~799446~~ 965010693

The attached document is an all inclusive list of the wells operated by Questar Exploration and Production Company. As of June 14, 2010 QEP Energy Company assumes all rights, duties and obligations as operator of the properties as described on the list

NAME (PLEASE PRINT) <u>Morgan Anderson</u>	TITLE <u>Regulatory Affairs Analyst</u>
SIGNATURE <u><i>Morgan Anderson</i></u>	DATE <u>6/23/2010</u>

(This space for State use only)

**RECEIVED**

**JUN 28 2010**

**DIV. OF OIL, GAS & MINING**

(See Instructions on Reverse Side)

**APPROVED** 6/13/2009

*Earlene Russell*  
**Division of Oil, Gas and Mining**  
**Earlene Russell, Engineering Technician**

Questar Exploration Production Company (N5085) to QEP Energy Company (N3700)  
JOHNSON BOTTOM  
effective June 14, 2010

well_name	sec	twp	rng	api	entity	mineral lease	type	stat	C
LEOTA 1-34-2B	34	070S	210E	4304730879	5420	Federal	OW	P	
WV 7W-36-7-21	36	070S	210E	4304734065	13334	State	D	PA	
WV 9W-36-7-21	36	070S	210E	4304734066	13331	State	D	PA	
WV 11W-36-7-21	36	070S	210E	4304734067	13678	State	GW	PA	
WV 5W-36-7-21	36	070S	210E	4304734099	13807	State	GW	OPS	C
WV 13W-36-7-21	36	070S	210E	4304734100	13678	State	GW	P	
SU PURDY 7W-34-7-21	34	070S	210E	4304734380	13679	Federal	GW	P	
BBE 15G-16-7-21	16	070S	210E	4304735408	14070	State	OW	P	
BBS 15G-22-7-21	22	070S	210E	4304737443	15688	Federal	OW	P	C
TU 3-35-7-21	35	070S	210E	4304738995	16512	Federal	GW	P	
SU PURDY 3M-25-7-21	25	070S	210E	4304739179		Federal	OW	APD	C
JB 4G-27-7-21	27	070S	210E	4304739180		Federal	OW	APD	C
SU PURDY 10G-27-7-21	27	070S	210E	4304739181		Federal	OW	APD	C
JB 8G-21-7-21	21	070S	210E	4304740613	17595	Federal	OW	DRL	C
JB 12G-27-7-21	27	070S	210E	4304740614		Federal	OW	APD	C
JB 1G-28-7-21	28	070S	210E	4304740615		Federal	OW	APD	C
JB 15G-34-7-21	34	070S	210E	4304740616		Federal	OW	APD	C

Bonds: BLM = ESB000024  
BIA = 956010693  
State = 965010695



## United States Department of the Interior

### BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155  
<http://www.blm.gov/ut/st/en.html>



IN REPLY REFER TO:  
3100  
(UT-922)

JUL 28 2010

#### Memorandum

To: Vernal Field Office, Price Field Office, Moab Field Office  
From: Chief, Branch of Minerals *Roger L Bankert*  
Subject: Name Change Recognized

Attached is a copy of the Certificate of Name Change issued by the Texas Secretary of State and a decision letter recognizing the name change from the Eastern States Office. We have updated our records to reflect the name change in the attached list of leases.

The name change from **Questar Exploration and Production Company** into **QEP Energy Company** is effective June 8, 2010.

cc: MMS  
UDOGM

RECEIVED

AUG 16 2010

DIV. OF OIL, GAS & MINERALS

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>																														
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-16551																														
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>																														
<b>2. NAME OF OPERATOR:</b> QEP ENERGY COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> JOHNSON BOTTOM																														
<b>3. ADDRESS OF OPERATOR:</b> 11002 East 17500 South, Vernal, Ut, 84078		<b>8. WELL NAME and NUMBER:</b> SU PURDY 7W-34-7-21																														
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2060 FNL 2005 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 34 Township: 07.0S Range: 21.0E Meridian: S		<b>9. API NUMBER:</b> 43047343800000																														
<b>9. FIELD and POOL or WILDCAT:</b> WONSITS VALLEY		<b>COUNTY:</b> UINTAH																														
<b>STATE:</b> UTAH																																
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>																																
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>																															
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 11/25/2014  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%;"> <tr> <td><input type="checkbox"/> ACIDIZE</td> <td><input type="checkbox"/> ALTER CASING</td> <td><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td><input type="checkbox"/> CHANGE TUBING</td> <td><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td><input type="checkbox"/> CHANGE WELL STATUS</td> <td><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td><input type="checkbox"/> DEEPEN</td> <td><input type="checkbox"/> FRACTURE TREAT</td> <td><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td><input type="checkbox"/> OPERATOR CHANGE</td> <td><input type="checkbox"/> PLUG AND ABANDON</td> <td><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td><input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td><input type="checkbox"/> TUBING REPAIR</td> <td><input type="checkbox"/> VENT OR FLARE</td> <td><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td><input type="checkbox"/> WATER SHUTOFF</td> <td><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td><input type="checkbox"/> OTHER</td> <td>OTHER: <input style="width: 100px;" type="text"/></td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> QEP ENERGY COMPANY REQUESTS APPROVAL TO RECOMPLETE THE SU PURDY 7W-34-7-21 BY ADDING ADDITIONAL PERFORATIONS TO THE GREEN RIVER FORMATION. SEE ATTACHED PROCEDURES.																																
<b>Accepted by the</b> <b>Utah Division of</b> <b>Oil, Gas and Mining</b>  <b>Date:</b> <u>December 15, 2014</u> <b>By:</b> <u>Derek Quist</u>																																
<b>NAME (PLEASE PRINT)</b> Benna Muth		<b>PHONE NUMBER</b> 435 781-4320																														
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Assistant																														
<b>DATE</b> 11/25/2014																																

QEP Energy requests approval to recompleate the SU Purdy 7W-34-7-21 by adding additional perforations to the Green River Formation as follows:

1. Stage 1: (existing perforations that were only acidized, never frac'd)
  - a. 6808'-6828', frac with crosslink fluid.
  - b. 6240'-6258', frac with crosslink fluid.
  - c. 6190'-6194', frac with crosslink fluid.
  - d. 6180'-6185', frac with crosslink fluid.
  - e. 5928'-5936', frac with crosslink fluid.
2. Set a CFP at 5900'.
3. Stage 2:
  - a. 5851'-5853', 3spf, frac with crosslink fluid.
  - b. 5827'-5829', 3spf, frac with crosslink fluid.
  - c. 5806'-5807', 3spf, frac with crosslink fluid.
  - d. 5767'-5769', 3spf, frac with crosslink fluid.
  - e. 5726'-5727', 3spf, frac with crosslink fluid.
  - f. 5696'-5698', 3spf, frac with crosslink fluid.
  - g. 5666'-5667', 3spf, frac with crosslink fluid.
  - h. 5643'-5645', 3spf, frac with crosslink fluid.
  - i. 5605'-5606', 3spf, frac with crosslink fluid.
4. Set a CFP at 5500'.
5. Stage 3:
  - a. 5458'-5460', 3spf, frac with crosslink fluid.
  - b. 5434'-5435', 3spf, frac with crosslink fluid.
  - c. 5409'-5410', 3spf, frac with crosslink fluid.
  - d. 5385'-5386', 3spf, frac with crosslink fluid.
  - e. 5330'-5331', 3spf, frac with crosslink fluid.
  - f. 5299'-5300', 3spf, frac with crosslink fluid.
  - g. 5288'-5289', 3spf, frac with crosslink fluid.
  - h. 5247'-5248', 3spf, frac with crosslink fluid.
  - i. 5234'-5235', 3spf, frac with crosslink fluid.
  - j. 5202'-5204', 3spf, frac with crosslink fluid.
  - k. 5172'-5173', 3spf, frac with crosslink fluid.
  - l. 5151'-5153', 3spf, frac with crosslink fluid.
  - m. 5135'-5136', 3spf, frac with crosslink fluid.
6. Drill up the top two plugs and return well to production.